118 - 965 MHz

COLLINEAR ANTENNAS

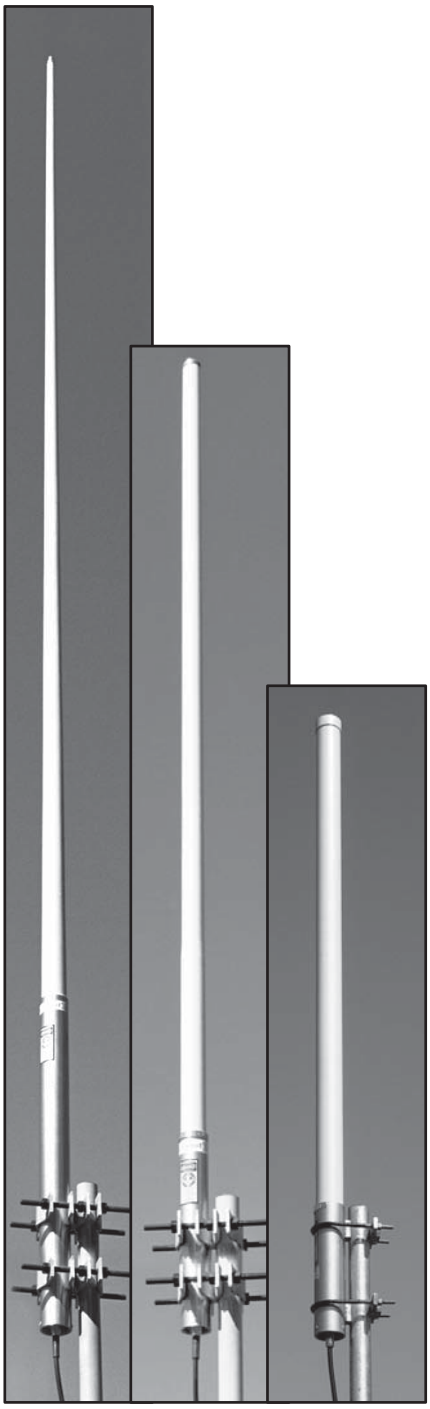
Telewave ***COOL BLUE™*** fiberglass collinear antennas are an industry standard. These antennas are specified by system designers who require their unique combination of wide bandwidth, high performance, gain flexibility, and rugged durability in all environmental conditions.

All Telewave collinear antennas handle 500 watts minimum input power, and are available in eight major frequency bands between 118-965 MHz, with gain from 0 to 10 dBd. Horizontal patterns are omnidirectional, and vertical beamwidth ranges from 7 to 42 degrees depending on gain and frequency.

The Telewave collinear design does not require external ground plane radials, eliminating a major source of failure and RF intermodulation. These antennas are constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection, including a solid copper or brass top cap. All junctions are fully soldered to prevent intermodulation. A heavy-duty 2.75" support pipe made of 6061-T6 aluminum is permanently bonded to an exceptionally strong radome, ensuring years of trouble-free performance.

The ***COOL BLUE™*** interwoven fiberglass radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives. Wind-load ratings are up to 200 MPH with no ice, and the flexibility of the radome (F6/8/10 models) allows enough antenna motion to resist normal icing, without affecting the pattern. The special radome color helps the antenna blend into the skyline, and absorbs solar radiation to assist de-icing.

The standard connector type is a recessed N-female, attached inside the base of the support pipe. A 24" coax jumper is included to simplify installations using hard-line cable. For higher power applications, a 7-16 DIN-F connector can be installed as an option. One set of heavy-duty mounting clamps is included with each antenna.



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TWDS-7035 Rev. 2/07

118 - 136 MHz

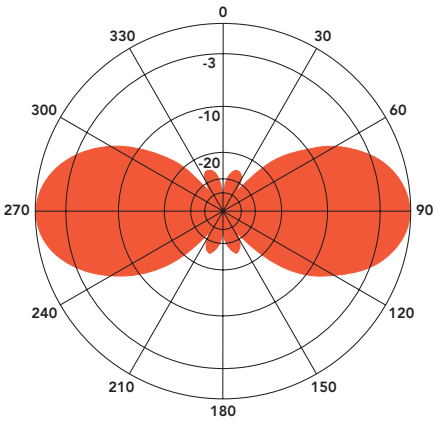
ANT125F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

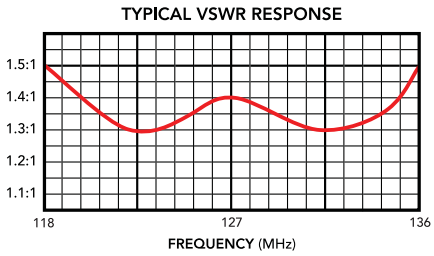
The Telewave **ANT125F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to DC ground for lightning impulse protection.

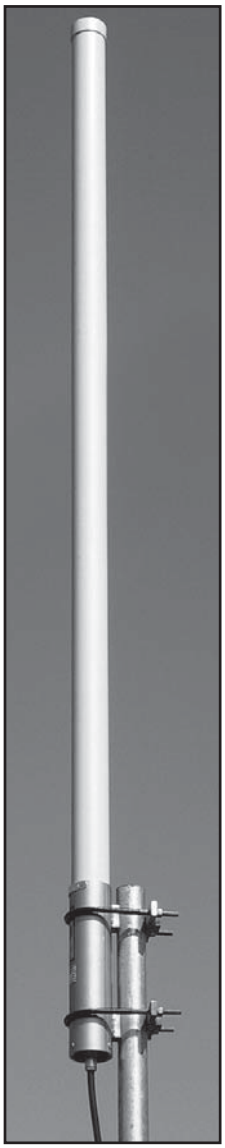
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT125F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT125F2 - 127 MHz
Vertical Plane
Gain = 2.56 dBd





SPECIFICATIONS			
Frequency (continuous)	118-136 MHz	**Dimensions (L x base diam.) in.**	77 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	15 lb.
Power rating (typ.)	500 watts	**Shipping weight**	19 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.6 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	62 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	117 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7051 Rev. 2/07

125 - 150 MHz

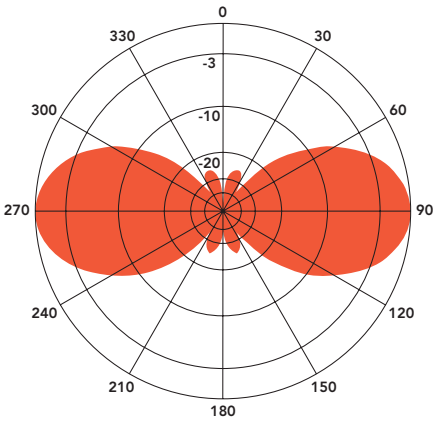
ANT135F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

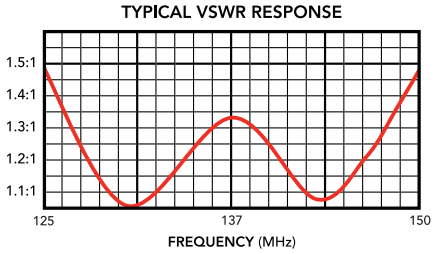
The Telewave **ANT135F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to DC ground for lightning impulse protection.

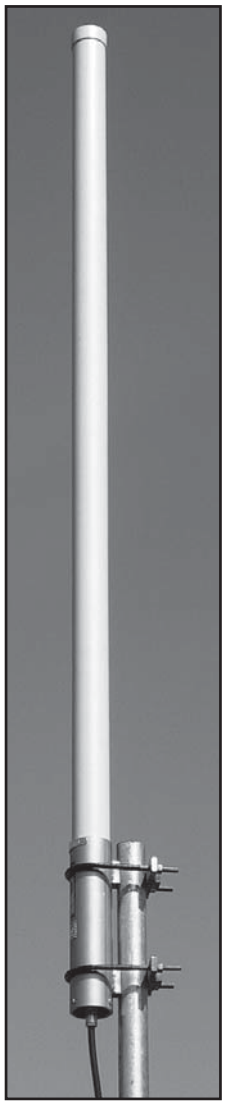
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT135F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT135F2 - 137 MHz
Vertical Plane
Gain = 2.53 dBd





SPECIFICATIONS			
Frequency (continuous)	125-150 MHz	**Dimensions (L x base diam.) in.**	72 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	15 lb.
Power rating (typ.)	500 watts	**Shipping weight**	19 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.5 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	59 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	101 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7059 Rev. 2/07

135 - 165 MHz

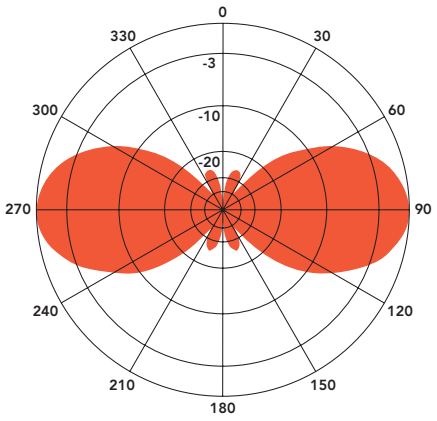
ANT140F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

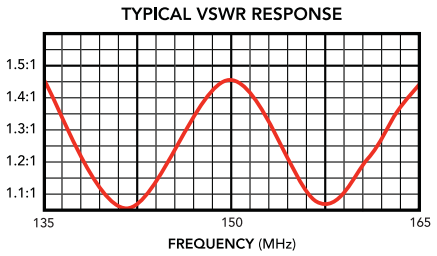
The Telewave **ANT140F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to DC ground potential for lightning impulse protection.

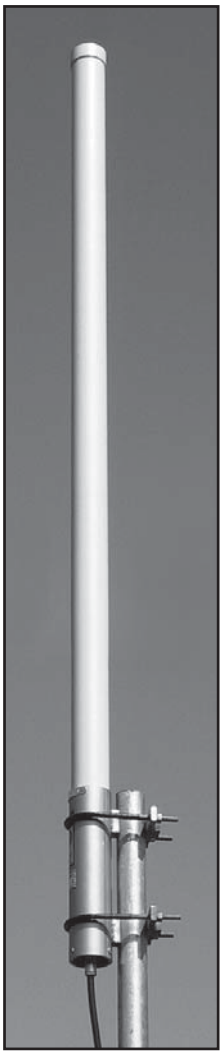
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT140F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT140F2 - 150 MHz
Vertical Plane
Gain = 2.51 dBd





SPECIFICATIONS			
Frequency (continuous)	135-165 MHz	**Dimensions (L x base diam.) in.**	66 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	14 lb.
Power rating (typ.)	500 watts	**Shipping weight**	17 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.4 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	55 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	83 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7047 Rev. 2/07

148 - 174 MHz

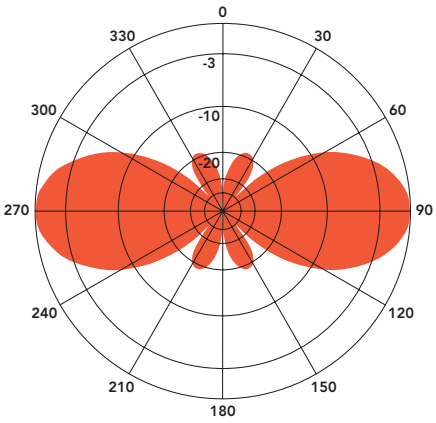
ANT150F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

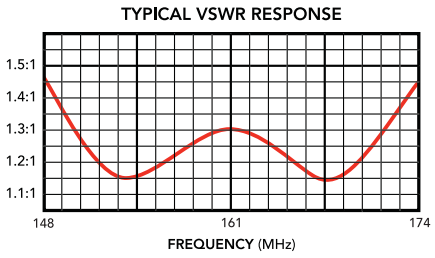
The Telewave **ANT150F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to DC ground for lightning impulse protection.

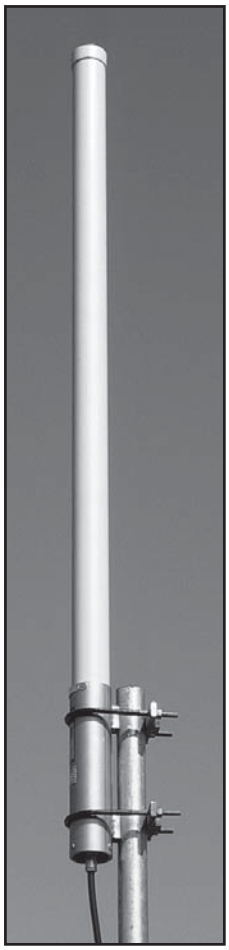
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT150F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT150F2 156 MHz
Vertical Plane
Gain = 2.55 dBd





SPECIFICATIONS			
Frequency (continuous)	148-174 MHz	**Dimensions (L x base diam.) in.**	60 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	13 lb.
Power rating (typ.)	500 watts	**Shipping weight**	16 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.3 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	50 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	67 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7017 Rev. 2/07

138 - 174 MHz

ANT150F6

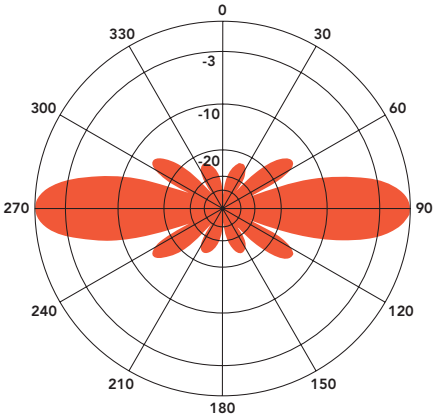
FIBERGLASS COLLINEAR ANTENNA 6 dBd

The Telewave ANT150F6 is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection. All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments.

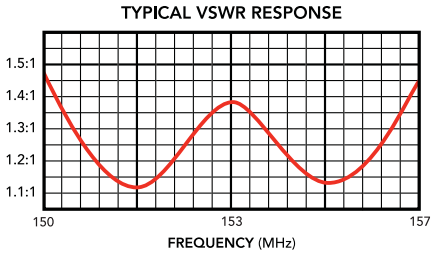
The "Cool Blue" radome provides maximum protection from corrosive gases, UV radiation, icing, salt spray, acid rain, and wind blown abrasives. Seven models cover the entire VHF band. Please specify exact frequency and band code (-1, -2, etc.) when ordering.

The ANT150F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.

NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY



ANT150F6 - 156 MHz
Vertical Plane
Gain = 6.41 dBd



FREQUENCY RANGES	
ANT150F6-1	138 - 144 MHz
ANT150F6-2	144 - 151 MHz
ANT150F6-3	150 - 157 MHz
ANT150F6-4	156 - 164 MHz
ANT150F6-5	158 - 166 MHz
ANT150F6-6	161 - 168 MHz
ANT150F6-7	167 - 174 MHz

SPECIFICATIONS			138-151 MHz	150-174 MHz
Frequency range	138-174 MHz	**Dimensions (L x base diam.)**	256" x 2.75"	244" x 2.75"
Gain	6 dBd	**Tower weight** (Antenna + clamps)	43 lb.	41 lb.
Power rating (typ.)	500 watts	**Shipping weight**	65 lb.	62 lb.
Impedance	50 ohms	**Wind rating / 0.5" ice**	150 / 125 MPH	
VSWR	1.5:1 or less	**Max. Exposed Area**	4.05 ft.²	3.97 ft.²
Pattern	Omnidirectional	**Lateral Thrust at 100 MPH**	162 lb.	159 lb.
Vertical beamwidth	38°	**Bending Moment - top clamp**	1090 ft. lb.	1010 ft. lb.
Termination	Recessed N-Female 7/16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**		

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TWDS-7020 Rev. 2/07

195 - 260 MHz

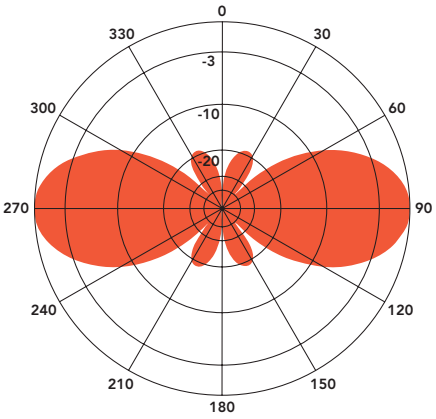
ANT220F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

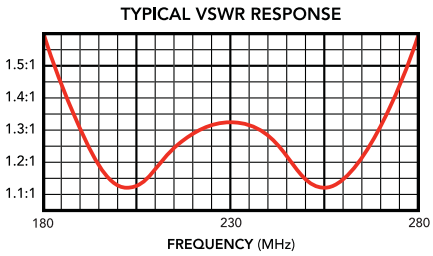
The Telewave **ANT220F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

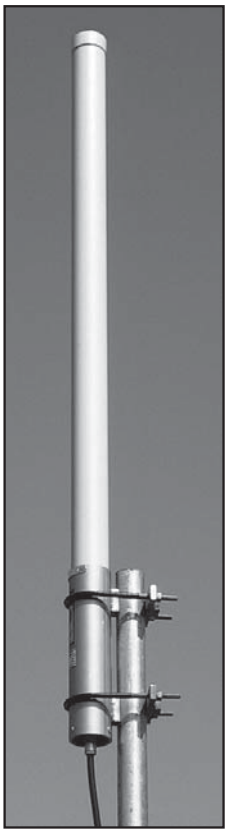
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT220F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT220F2 - 230 MHz
Vertical Plane
Gain = 2.58 dBd





SPECIFICATIONS			
Frequency (continuous)	195-260 MHz	**Dimensions (L x base diam.) in.**	51 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	12 lb.
Power rating (typ.)	500 watts	**Shipping weight**	14 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.1 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	44 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	47 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7053 Rev. 2/07

216 - 225 MHz

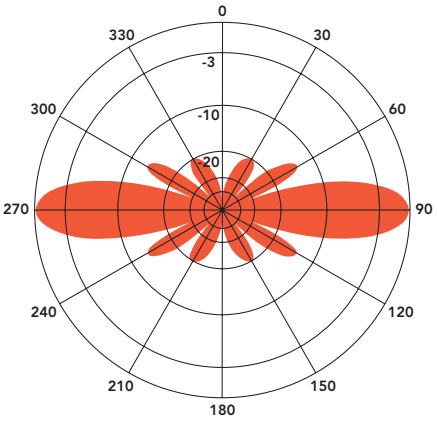
ANT220F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

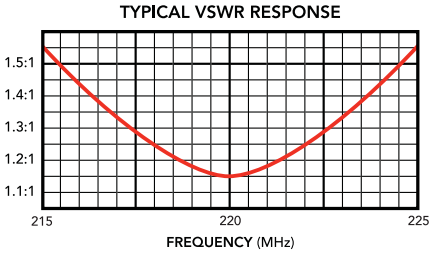
The Telewave **ANT220F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT220F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT220F6 - 221 MHz
Vertical Plane
Gain = 6.11 dBd



NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY

SPECIFICATIONS			
Frequency (continuous)	216-225 MHz	**Dimensions (L x base diam.) in.**	171 x 2.75
Gain	6 dBd	**Tower weight (antenna + clamps)**	32 lb.
Power rating (typ.)	500 watts	**Shipping weight**	47 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	3.1 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	122 lb.
Vertical beamwidth	20°	**Bending moment at top clamp**	494 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7021 Rev. 2/07

340 - 370 MHz

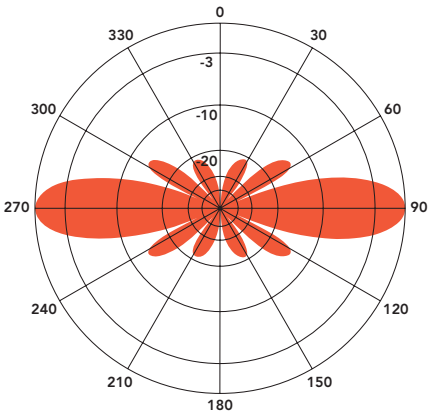
ANT355F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

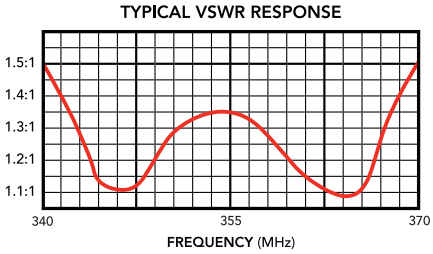
The Telewave **ANT355F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT355F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT355F6 - 355 MHz
Vertical Plane
Gain = 6.27 dBd



NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY

SPECIFICATIONS			
Frequency (continuous)	340-370 MHz	**Dimensions (L x base diam.) in.**	126 x 2.75
Gain	6 dBd	**Tower weight (antenna + clamps)**	26 lb.
Power rating (typ.)	500 watts	**Shipping weight**	37 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	2.5 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	99 lb.
Vertical beamwidth	18°	**Bending moment at top clamp**	263 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7094 Rev. 2/07

370 - 400 MHz

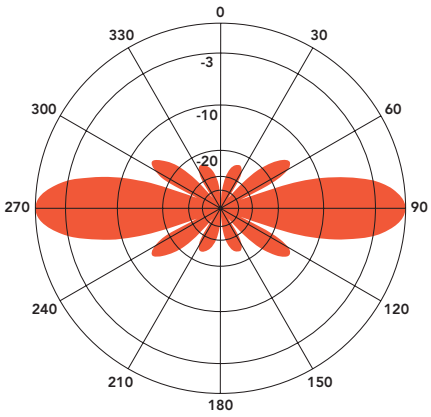
ANT385F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

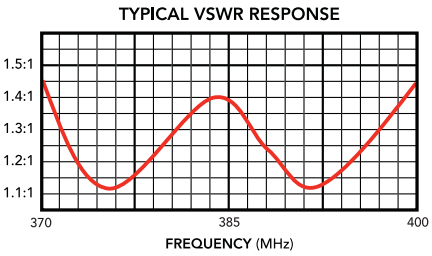
The Telewave **ANT385F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT385F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT385F6 - 385 MHz
Vertical Plane
Gain = 6.12 dBd



NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY

SPECIFICATIONS			
Frequency (continuous)	340-370 MHz	**Dimensions (L x base diam.) in.**	112 x 2.75
Gain	6 dBd	**Tower weight (antenna + clamps)**	26 lb.
Power rating (typ.)	500 watts	**Shipping weight**	37 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	2.3 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	91 lb.
Vertical beamwidth	18°	**Bending moment at top clamp**	205 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7095 Rev. 2/07

360 - 455 MHz

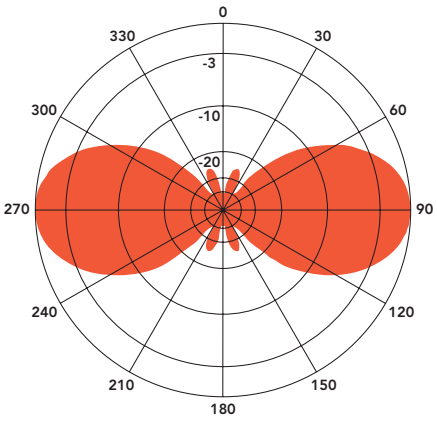
ANT400F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

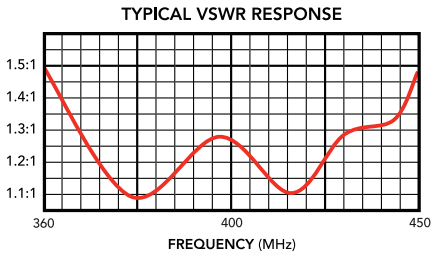
The Telewave **ANT400F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

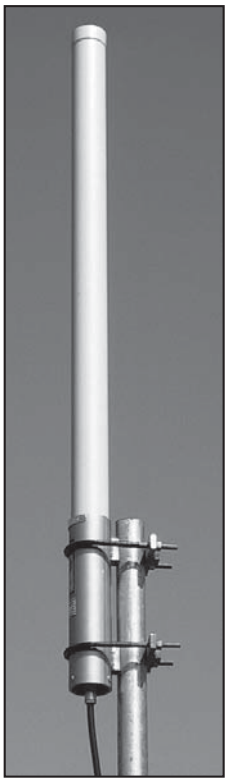
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT400F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT400F2 - 410 MHz
Vertical Plane
Gain = 2.51 dBd





SPECIFICATIONS			
Frequency (continuous)	360-455 MHz	**Dimensions (L x base diam.) in.**	44 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	9 lb.
Power rating (typ.)	500 watts	**Shipping weight**	11 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	39 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	33 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7072 Rev. 2/07

405 - 440 MHz

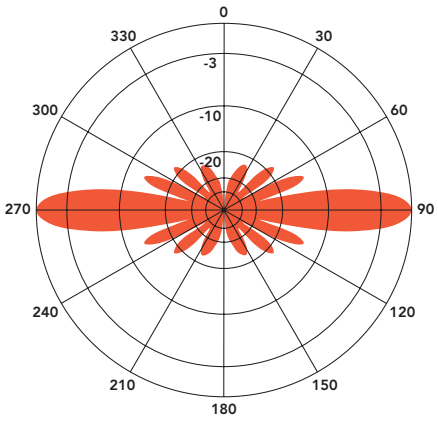
ANT415F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

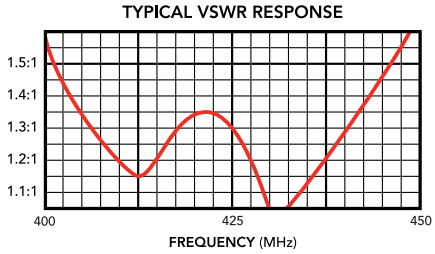
The Telewave **ANT415F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT415F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT415F6 - 421 MHz
Vertical Plane
Gain = 6.7 dBd



SPECIFICATIONS			
Frequency (continuous)	405-440 MHz	**Dimensions (L x base diam.) in.**	101 x 2.375
Gain	6 dBd	**Tower weight (antenna + clamps)**	22 lb.
Power rating (typ.)	500 watts	**Shipping weight**	28 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	185 / 155 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.7 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	68 lb.
Vertical beamwidth	18°	**Bending moment at top clamp**	149 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7030 Rev. 2/07

395 - 436 MHz

ANT415F8

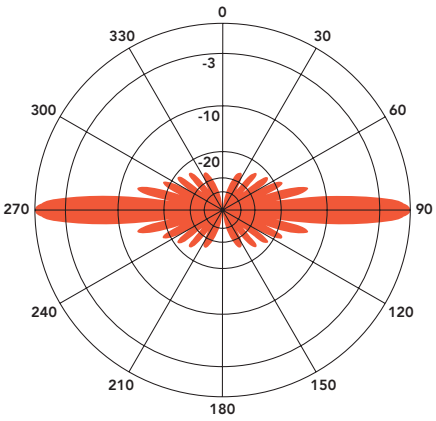
FIBERGLASS COLLINEAR ANTENNA 8 dBd

The Telewave **ANT415F8** is an extremely rugged, high-gain fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

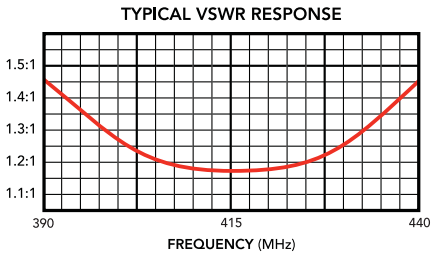
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT415F8 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.

NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY



ANT415F8 - 420 MHz
Vertical Plane
Gain = 8.68 dBd



SPECIFICATIONS			
Frequency (continuous)	395-436 MHz	**Dimensions (L x base diam.) in.**	240 x 2.75
Gain	8 dBd	**Tower weight (antenna + clamps)**	40 lb.
Power rating (typ.)	500 watts	**Shipping weight**	60 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	3.9 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	157 lb.
Vertical beamwidth	11°	**Bending moment at top clamp**	975 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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420 - 480 MHz

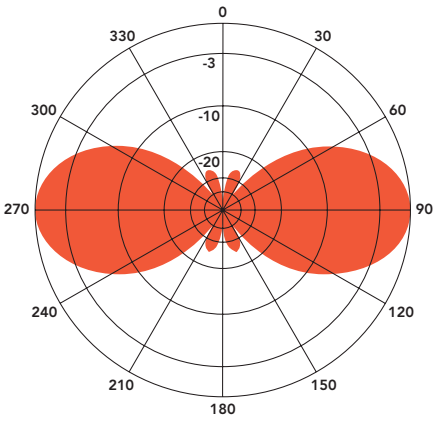
ANT450F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

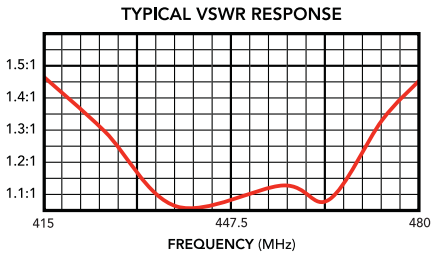
The Telewave **ANT450F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

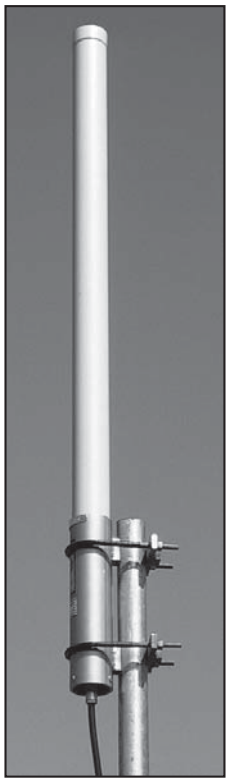
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives

The ANT450F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT450F2 - 447 MHz
Vertical Plane
Gain = 2.54 dBd





SPECIFICATIONS			
Frequency (continuous)	420-480 MHz	**Dimensions (L x base diam.) in.**	42 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	9 lb.
Power rating (typ.)	500 watts	**Shipping weight**	11 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	38 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	30 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7018 Rev. 2/07

445 - 480 MHz

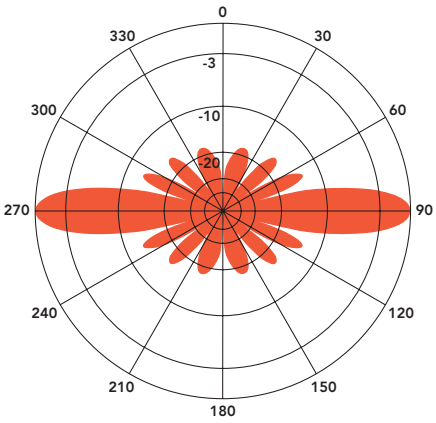
ANT450F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

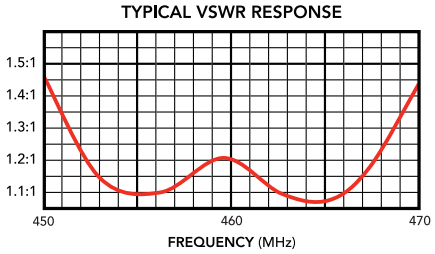
The Telewave **ANT450F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

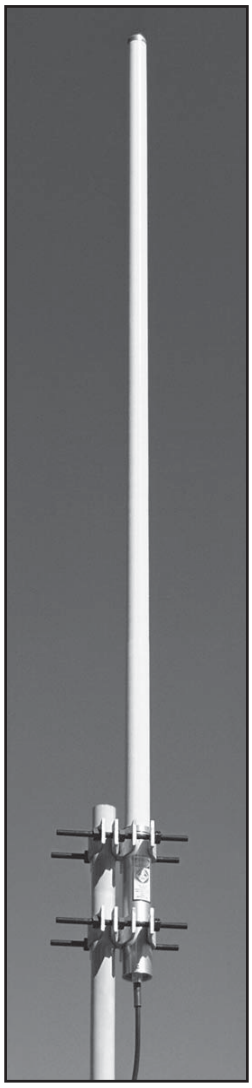
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT450F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT450F6 - 460 MHz
Vertical Plane
Gain = 6.32 dBd





SPECIFICATIONS			
Frequency (continuous)	445-480 MHz	**Dimensions (L x base diam.) in.**	94 x 2.375
Gain	6 dBd	**Tower weight (antenna + clamps)**	21 lb.
Power rating (typ.)	500 watts	**Shipping weight**	26 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.5 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	60 lb.
Vertical beamwidth	18°	**Bending moment at top clamp**	143 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7036 Rev. 2/07

430 - 475 MHz

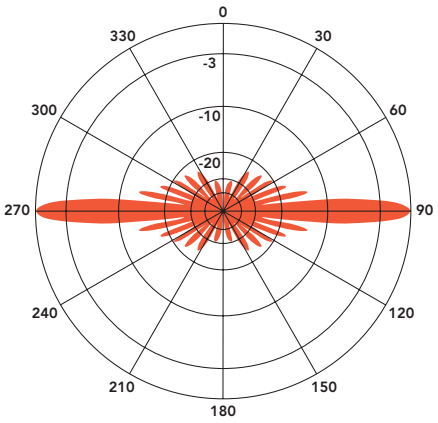
ANT450F10

FIBERGLASS COLLINEAR ANTENNA 10 dBd

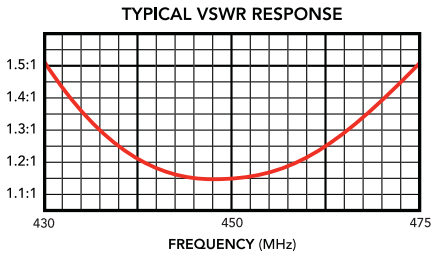
The Telewave **ANT450F10** is an extremely rugged, high-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT450F10 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT450F10 - 450 MHz
Vertical Plane
Gain = 10.06 dBd



NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY

SPECIFICATIONS			
Frequency (continuous)	430-475 MHz	**Dimensions (L x base diam.) in.**	244 x 2.75
Gain	10 dBd	**Tower weight (antenna + clamps)**	41 lb.
Power rating (typ.)	500 watts	**Shipping weight**	62 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	4.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	159 lb.
Vertical beamwidth	7°	**Bending moment at top clamp**	1010 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7037 Rev. 2/07

450 - 512 MHz

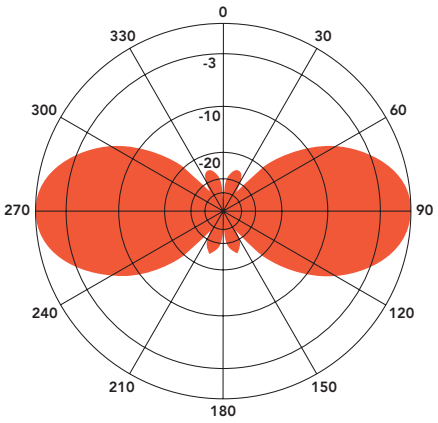
ANT480F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

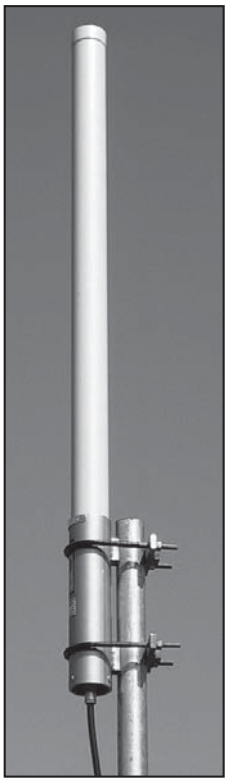
The Telewave **ANT480F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

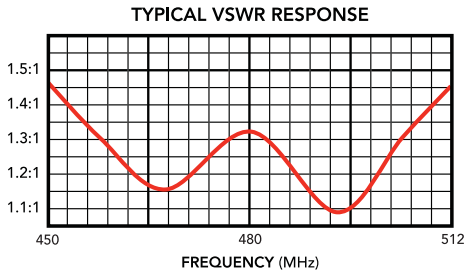
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT480F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT480F2 - 487 MHz
Vertical Plane
Gain = 2.51 dBd





SPECIFICATIONS			
Frequency (continuous)	450-512 MHz	**Dimensions (L x base diam.) in.**	42 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	9 lb.
Power rating (typ.)	500 watts	**Shipping weight**	11 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	38 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	30 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7078 Rev. 2/07

470 - 512 MHz

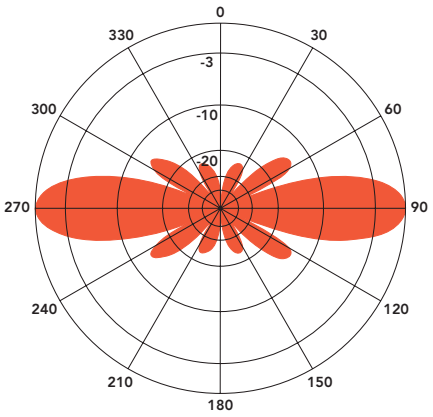
ANT500F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

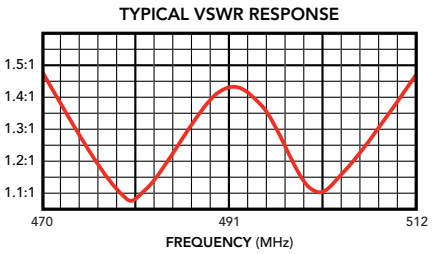
The Telewave **ANT500F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

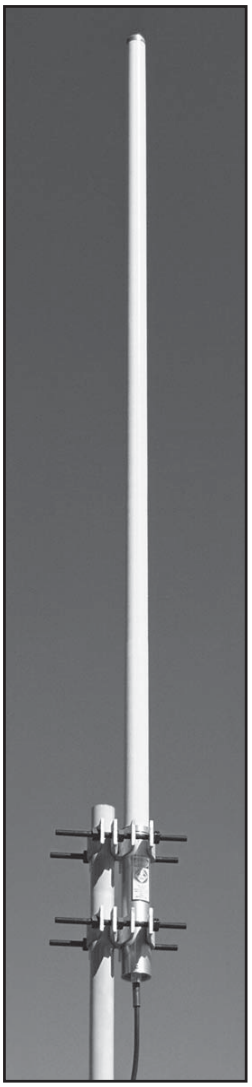
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT500F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT500F6 - 490 MHz
Vertical Plane
Gain = 6.28 dBd





SPECIFICATIONS			
Frequency (continuous)	470-512 MHz	**Dimensions (L x base diam.) in.**	89 x 2.375
Gain	6 dBd	**Tower weight (antenna + clamps)**	20 lb.
Power rating (typ.)	500 watts	**Shipping weight**	25 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.4 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	57 lb.
Vertical beamwidth	19°	**Bending moment at top clamp**	127 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7049 Rev. 2/07

470 - 512 MHz

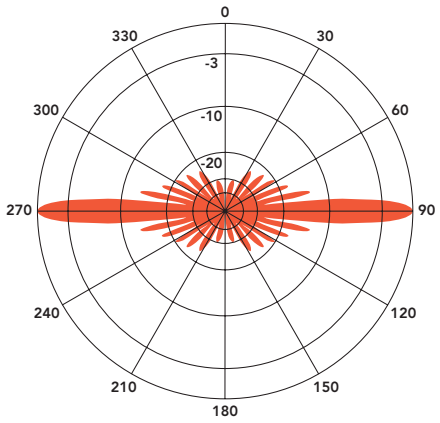
ANT500F10

FIBERGLASS COLLINEAR ANTENNA 10 dBd

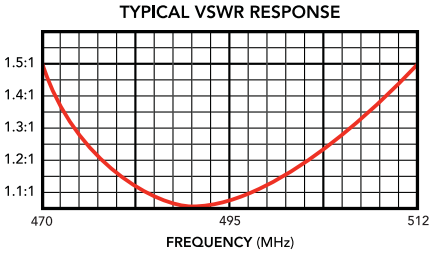
The Telewave **ANT500F10** is an extremely rugged, high-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT500F10 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT500F10 - 495 MHz
Vertical Plane
Gain = 10.06 dBd



NOTE: THIS ANTENNA IS SHIPPED VIA TRUCK FREIGHT ONLY

SPECIFICATIONS			
Frequency (continuous)	470-512 MHz	**Dimensions (L x base diam.) in.**	244 x 2.75
Gain	10 dBd	**Tower weight (antenna + clamps)**	41 lb.
Power rating (typ.)	500 watts	**Shipping weight**	62 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	150 / 125 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	4.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	159 lb.
Vertical beamwidth	7°	**Bending moment at top clamp**	1010 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7050 Rev. 2/07

734 - 960 MHz

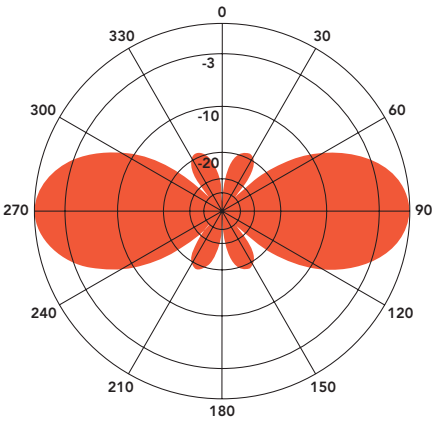
ANT734-960F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

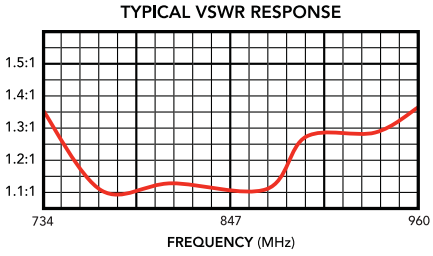
The Telewave **ANT734-960F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact, wideband antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

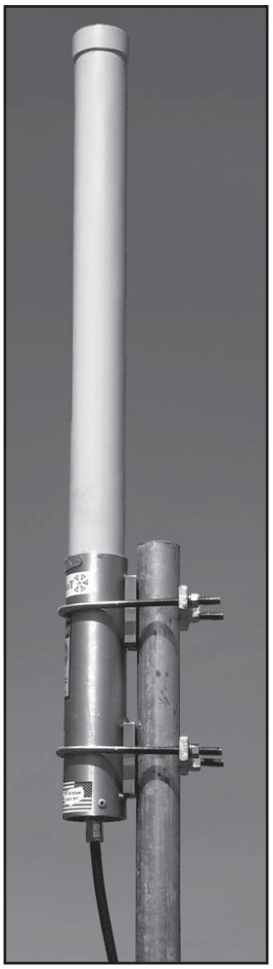
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT734-960F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT734-960F2 - 838 MHz
Vertical Plane
Gain = 2.5 dBd





SPECIFICATIONS			
Frequency (continuous)	734-960 MHz	**Dimensions (L x base diam.) in.**	38 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	8 lb.
Power rating (typ.)	500 watts	**Shipping weight**	10 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	0.9 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	35 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	23 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7056 Rev. 2/07

734 - 806 MHz

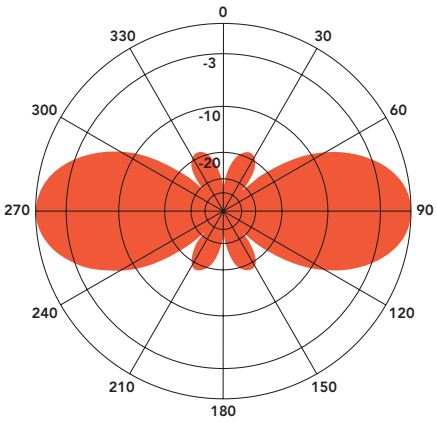
ANT770F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

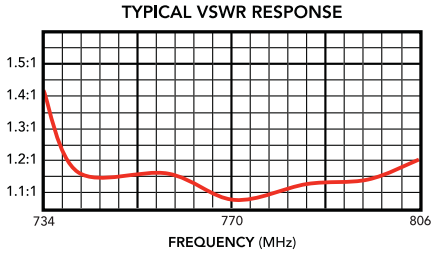
The Telewave **ANT770F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

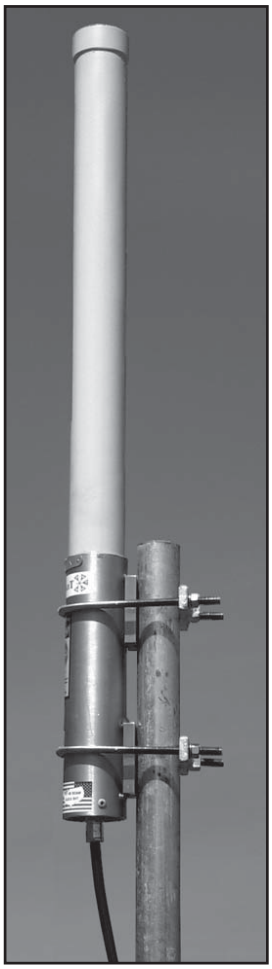
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT770F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT770F2 - 750 MHz
Vertical Plane
Gain = 2.5 dBd





SPECIFICATIONS			
Frequency (continuous)	734-806 MHz	**Dimensions (L x base diam.) in.**	38 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	8 lb.
Power rating (typ.)	500 watts	**Shipping weight**	10 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	0.9 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	35 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	23 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7052 Rev. 2/07

746 - 806 MHz

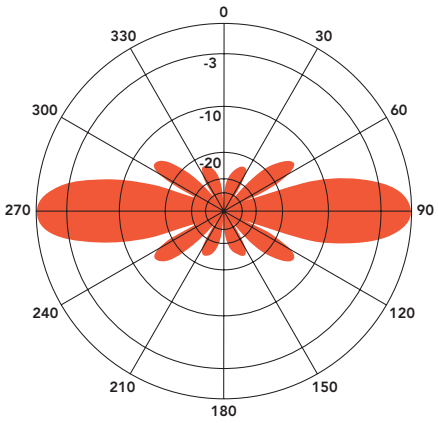
ANT770F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

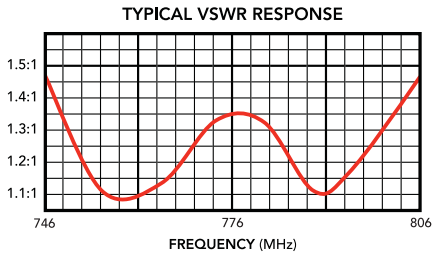
The Telewave **ANT770F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

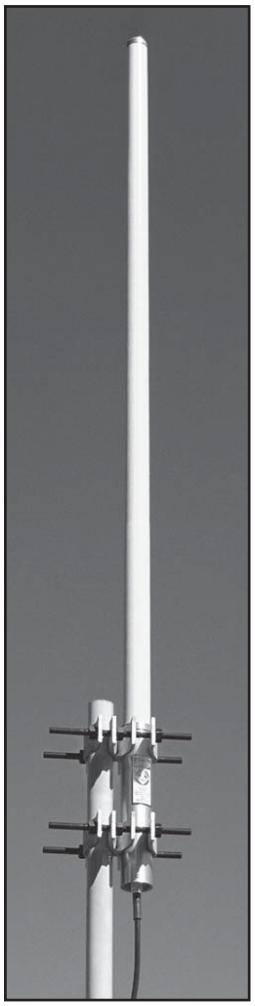
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT770F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT770F6 - 776 MHz
Vertical Plane
Gain = 6.15 dBd





SPECIFICATIONS			
Frequency (continuous)	746-806 MHz	**Dimensions (L x base diam.) in.**	61 x 2.75
Gain	6 dBd	**Tower weight (antenna + clamps)**	19 lb.
Power rating (typ.)	500 watts	**Shipping weight**	23 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.1 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	42 lb.
Vertical beamwidth	19°	**Bending moment at top clamp**	55 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7086 Rev. 2/07

806 - 896 MHz

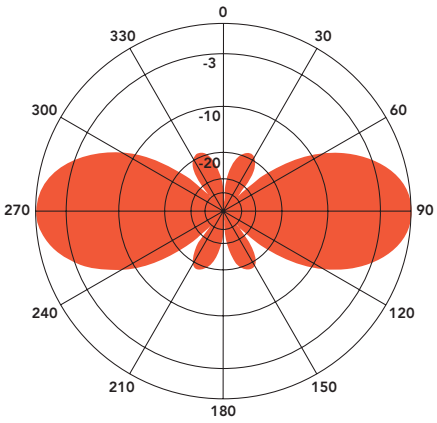
ANT850F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

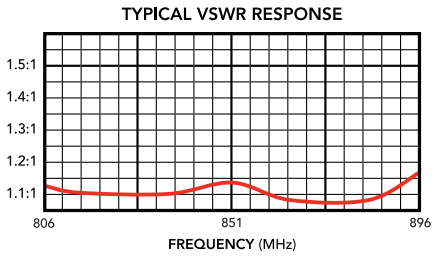
The Telewave **ANT850F2** is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

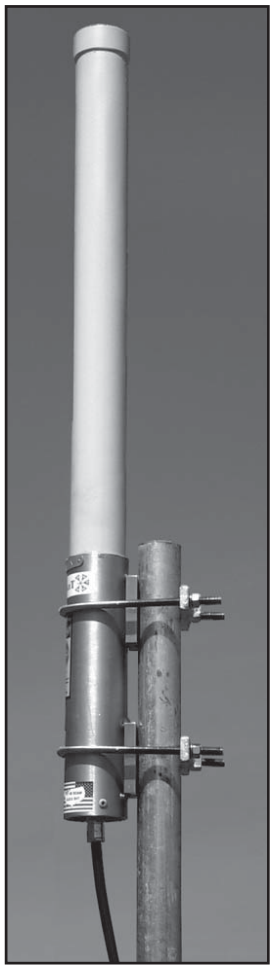
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT850F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT850F2 - 851 MHz
Vertical Plane
Gain = 2.58 dBd





SPECIFICATIONS			
Frequency (continuous)	806-896 MHz	**Dimensions (L x base diam.) in.**	38 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	8 lb.
Power rating (typ.)	500 watts	**Shipping weight**	10 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	0.9 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	35 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	23 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7054 Rev. 2/07

806 - 896 MHz

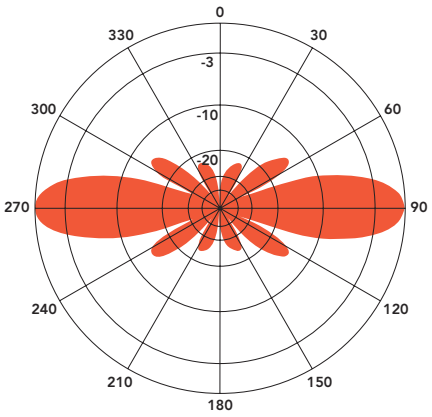
ANT850F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

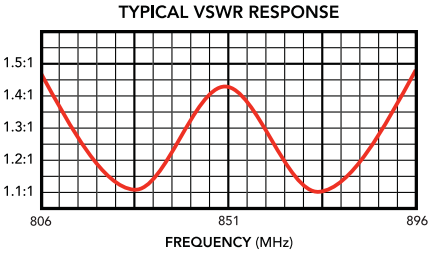
The Telewave **ANT850F6** is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

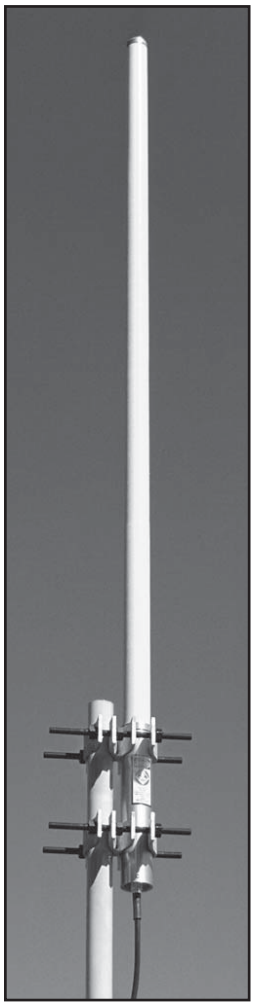
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT850F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT850F6 - 850 MHz
Vertical Plane
Gain = 6.16 dBd





SPECIFICATIONS			
Frequency (continuous)	806-896 MHz	**Dimensions (L x base diam.) in.**	56 x 2.375
Gain	6 dBd	**Tower weight (antenna + clamps)**	18 lb.
Power rating (typ.)	500 watts	**Shipping weight**	22 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	39 lb.
Vertical beamwidth	19°	**Bending moment at top clamp**	46 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7010 Rev. 2/07

806 - 896 MHz

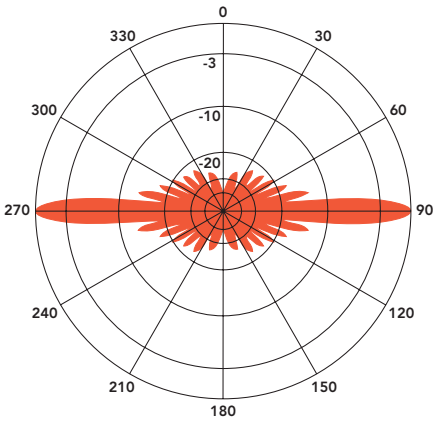
ANT850F10

FIBERGLASS COLLINEAR ANTENNA 10 dBd

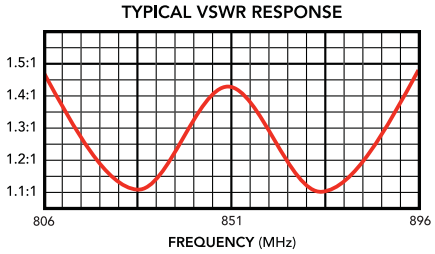
The Telewave **ANT850F10** is an extremely rugged, high-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

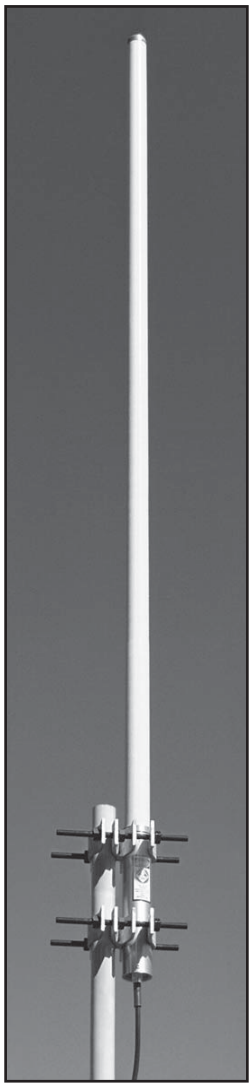
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT850F10 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT850F10 - 850 MHz
Vertical Plane
Gain = 10.10 dBd





SPECIFICATIONS			
Frequency (continuous)	806-896 MHz	**Dimensions (L x base diam.) in.**	83 x 2.375
Gain	10 dBd	**Tower weight (antenna + clamps)**	19 lb.
Power rating (typ.)	500 watts	**Shipping weight**	23 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.3 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	53 lb.
Vertical beamwidth	6°	**Bending moment at top clamp**	106 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7011 Rev. 2/07

880 - 960 MHz

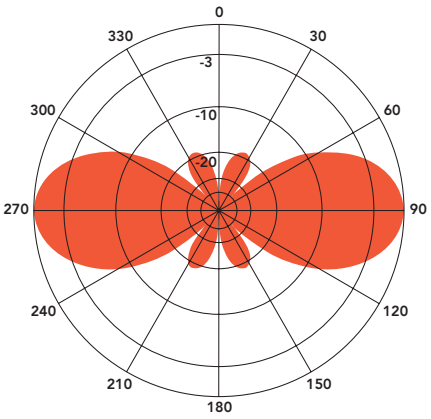
ANT900F2

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

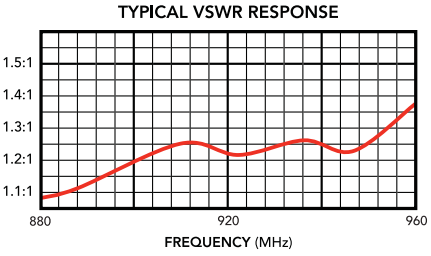
The Telewave ANT900F2 is an extremely rugged collinear antenna, with moderate gain and wide vertical beamwidth. This compact antenna produces 2.5 dBd gain, and is designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, with a path to ground potential for lightning impulse protection.

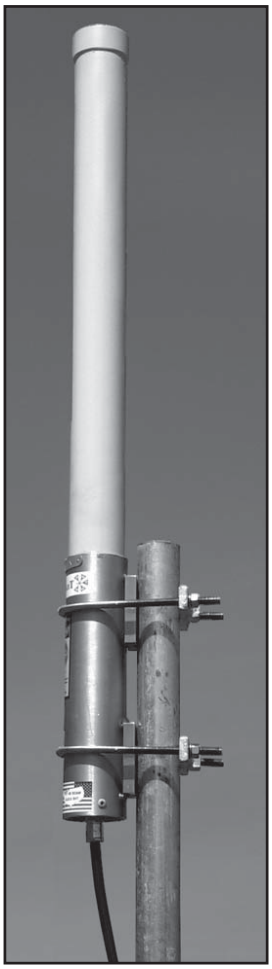
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT900F2 includes an ANTC485 dual clamp set for mounting to a 1.5" to 3" diameter support pipe, and a 24" removable RG-213 N-Male jumper.



ANT900F2 - 928 MHz
Vertical Plane
Gain = 2.5 dBd





SPECIFICATIONS			
Frequency (continuous)	880-960 MHz	**Dimensions (L x base diam.) in.**	38 x 2.75
Gain	2.5 dBd	**Tower weight (antenna + clamps)**	8 lb.
Power rating (typ.)	500 watts	**Shipping weight**	10 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	0.9 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	35 lb.
Vertical beamwidth	38°	**Bending moment at top clamp**	23 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7055 Rev. 2/07

870 - 965 MHz

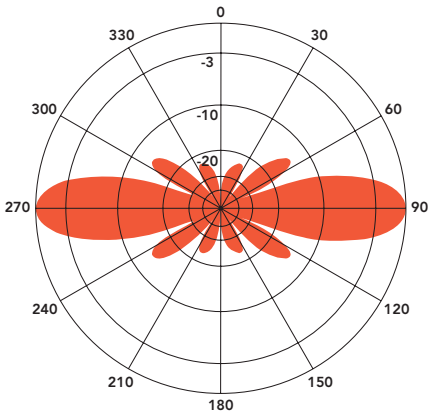
ANT940F6

FIBERGLASS COLLINEAR ANTENNA 6 dBd

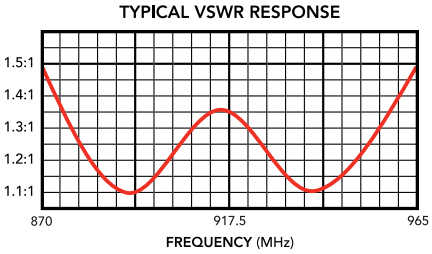
The Telewave ANT940F6 is an extremely rugged, medium-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

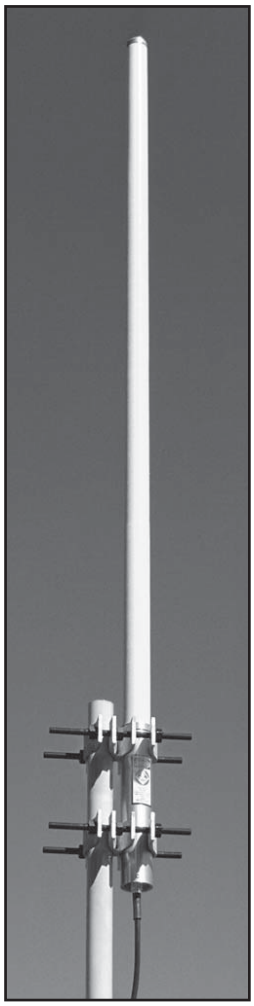
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT940F6 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT940F6 - 930 MHz
Vertical Plane
Gain = 6.1 dBd





SPECIFICATIONS			
Frequency (continuous)	870-965 MHz	**Dimensions (L x base diam.) in.**	56 x 2.375
Gain	6 dBd	**Tower weight (antenna + clamps)**	18 lb.
Power rating (typ.)	500 watts	**Shipping weight**	22 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.0 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	39 lb.
Vertical beamwidth	19°	**Bending moment at top clamp**	46 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7012 Rev. 2/07

870 - 965 MHz

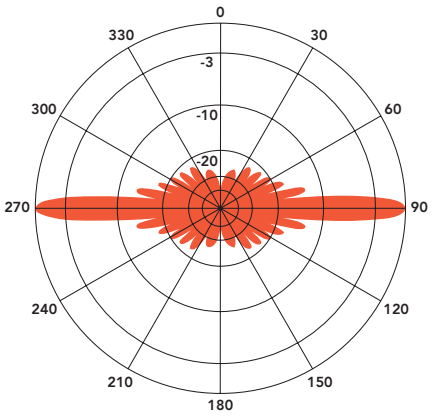
ANT940F10

FIBERGLASS COLLINEAR ANTENNA 10 dBd

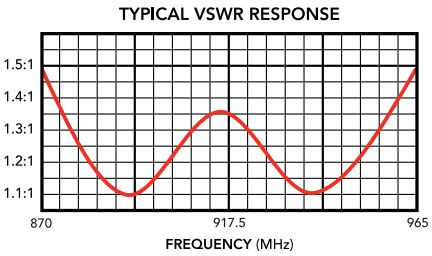
The Telewave **ANT940F10** is an extremely rugged, high-gain, fiberglass collinear antenna, designed for operation in all environmental conditions. The antenna is constructed with brass and copper elements, connected at DC ground potential for lightning impulse protection.

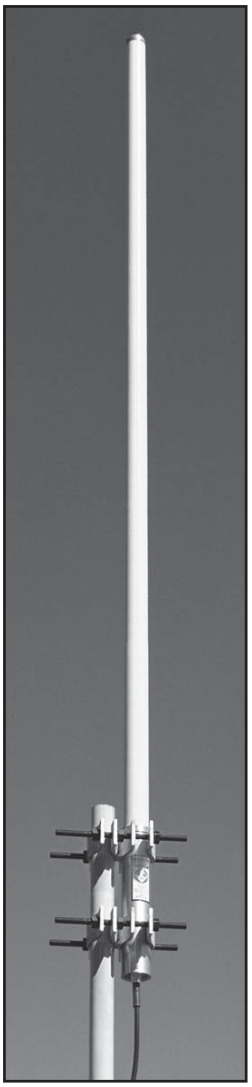
All junctions are fully soldered to prevent RF intermodulation, and each antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The "Cool Blue" radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, salt spray, acid rain, and wind blown abrasives.

The ANT940F10 includes an ANTC482 dual clamp set for mounting to a 1.5" to 4" diameter support pipe, and a 24" removable RG-213 N-Male jumper. Stand off and top mounts are also available.



ANT940F10 - 830 MHz
Vertical Plane
Gain = 10.12 dBd





SPECIFICATIONS			
Frequency (continuous)	870-965 MHz	**Dimensions (L x base diam.) in.**	83 x 2.375
Gain	10 dBd	**Tower weight (antenna + clamps)**	19 lb.
Power rating (typ.)	500 watts	**Shipping weight**	23 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	200 / 150 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	1.4 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	55 lb.
Vertical beamwidth	6°	**Bending moment at top clamp**	112 ft. lb.
Termination	Recessed N-Female 7-16 DIN-F opt.	**(100 MPH, 40 PSF flat plate equiv.)**	

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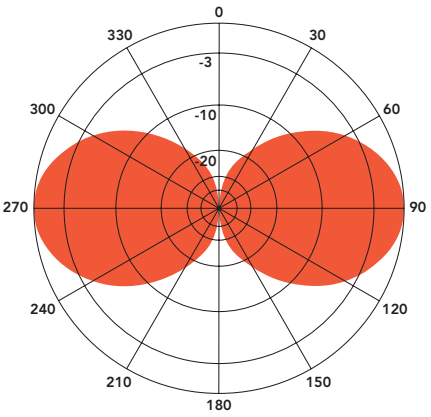
ANT960F0

WIRELESS DATA ANTENNA 2 dBd

900 - 960 MHz

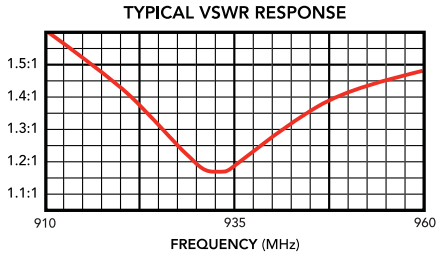
ANT960F0-1	900-930 MHz
ANT960F0-2	920-960 MHz

The Telewave ANT960F0 "Data Stick" is a rugged, economical omni antenna for wireless data applications in the 900 MHz band. The antenna is constructed entirely from brass internal components, and the durable radome is designed to withstand severe weather and environmental conditions. The radome will not corrode or degrade as a result of exposure to UV, salt water, oil, or most common chemical fumes. Optional mounting hardware is available for various applications.



ANT960F0 - 915 MHz
Vertical Plane
Gain = 2.0 dBd

Shown with optional clamp



SPECIFICATIONS			
Frequency range	900-930 / 920-960 MHz	**Dimensions (L x base diam.) in.**	14.5 x 1
Gain	2 dBd	**Antenna weight**	1 lb.
Power rating (typ.)	50 watts	**Shipping weight**	3 lb.
Impedance	50 ohms	**Wind rating / with 0.5" ice**	90 / 90 MPH
VSWR	1.5:1 or less	**Maximum exposed area**	0.1 ft.²
Pattern	Omnidirectional	**Lateral thrust at 100 MPH**	4 lb.
Vertical beamwidth	42°	**Bending moment at top clamp**	2 ft. lb.
Termination	Recessed N-Female	**(100 MPH, 40 PSF flat plate equiv.)**	

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TWDS-7039 Rev. 2/07

118 - 960 MHz

INSTALLATION GUIDE FOR COLLINEAR ANTENNAS *F2 MODELS*

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

IMPORTANT

BEFORE ASSEMBLING AND MOUNTING:

Carefully read these instructions and study the diagrams. Check to make sure you have all parts. Both clamps must be installed and properly spaced to prevent antenna rotation from wind load.

PARTS LIST

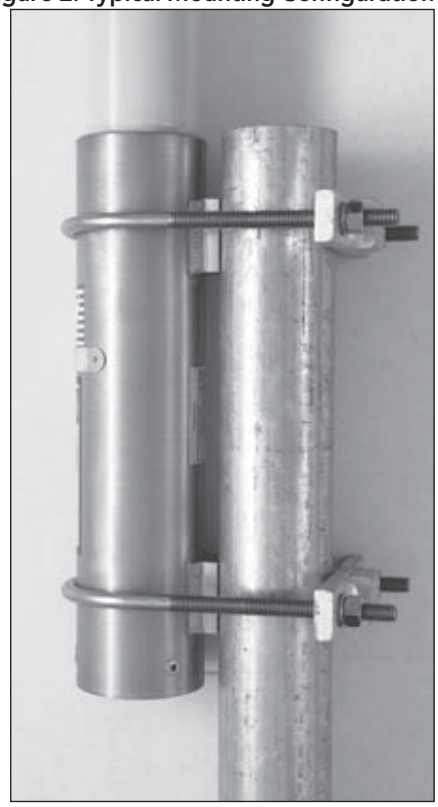
(1) Antenna assembly
(1) Jumper RG-213 N-male to N-male 24"
(provided only with N-terminated antennas)
(1) ANTC485 clamp kit

Clamp Kit Contents (Figure 1):

(2) Clamp plates
(2) 3/8"-16 stainless U bolts
(4) Hex nuts
(4) Lock washers

Figure 1: ANTC485 Clamp Kit

Figure 2: Typical Mounting Configuration



MOUNTING INSTRUCTIONS

1. The welded mounting rails are intended to be placed against the support structure when used with the supplied clamp set. When using an ANTC483 or other clamp set, the mounting rails should be turned to one side, out of contact with the support.
2. Place a loosely assembled clamp over the top of the mast. Feed the antenna base ferrule down through the clamp until aligned with the upper attachment point. Tighten down the hex nuts and straighten the antenna until clamped into a vertical position.
3. Attach and secure the lower antenna clamp with supplied hex nuts and lock washers, to provide reasonable pressure to the support structure and antenna base ferrule (Figure 2).
4. The antenna input connector is a Type "N" or 7-16 DIN Female. A 24" N-male jumper is provided for antennas with N input. Connect RF feed cable terminated with Type "N" or 7-16 DIN as required to antenna input connector. Secure all cables with cable ties.
5. Be sure to properly seal the input connector with waterproof tape or other sealing material. See Telewave TWDS-0502 "Connection Weatherproofing instructions" for a recommended method of connector sealing.

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TWDS-7084 Rev. 2/07

138 - 965 MHz

INSTALLATION GUIDE FOR COLLINEAR ANTENNAS *F6, F8, AND F10 MODELS*

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

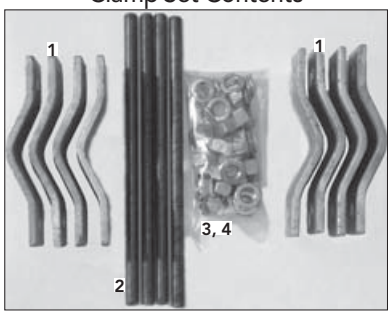
IMPORTANT

BEFORE ASSEMBLING AND MOUNTING:

Carefully read these instructions and study the diagrams. Check to make sure you have all parts. Both clamps must be installed and properly spaced to prevent antenna rotation from wind load.

NOTE: The antenna and clamp kit are shipped as two separate items.

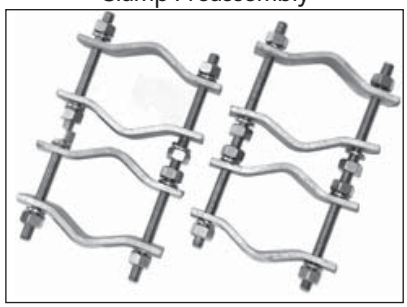
Figure 1:
Clamp Set Contents



PARTS LIST

(1) Antenna assembly
(1) Jumper RG-213 N-male to N-male 24"
(provided only with N-terminated antennas)
(1) ANTC483 or ANTC483SS clamp kit
Clamp kit Contents (figure 1):
1. (4) Tower or antenna (single) clamp plates
2. (2) Welded (dual) clamp plates
3. (4) 1/2"-13 x 10" threaded bolts
4. (12) 1/2" Hex nuts
5. (8) 1/2" Split lock washers

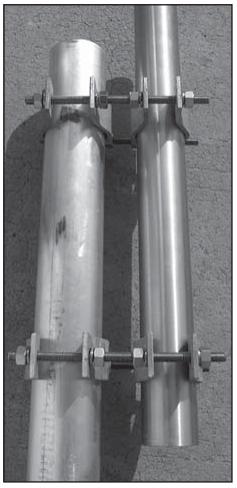
Figure 2:
Clamp Preassembly



MOUNTING INSTRUCTIONS

1. Thread bolts through welded dual clamps with hex nuts in the middle of the clamps as shown in figure 2. Allowing proper spacing, mount both clamps to the support structure with 2 single clamp plates, hex nuts, and lock washers. Be sure to allow sufficient thread length on the antenna side of the clamps.
2. Attach antenna clamp plate to the upper clamp set only, allowing maximum plate movement on the bolts. Feed the antenna base ferrule down through the clamp until aligned with the upper attachment point. Tighten down the hex nuts and straighten the antenna until clamped into a vertical position.
3. Attach and secure the lower antenna clamp with supplied hex nuts and lock washers, and tighten both clamps to provide reasonable pressure to the support structure and antenna base ferrule (Figure 3).
4. The antenna input connector is a Type "N" or 7-16 DIN Female. A 24" N-male jumper is provided for antennas with N input. Connect RF feed cable terminated with Type "N" or 7-16 DIN as required to antenna input connector. Secure all cables with cable ties.
5. Be sure to properly seal the input connector with waterproof tape or other sealing material. See Telewave TWDS-0502 "Connection Weatherproofing instructions" for a recommended method of connector sealing.

Figure 3: Assembly



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TWDS-7083 Rev. 3/07

ANTC482 CLAMP SET
FOR COLLINEAR ANTENNAS

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

IMPORTANT

BEFORE ASSEMBLING AND MOUNTING:

Carefully read these instructions and study the diagrams. Check to make sure you have all parts. Both clamps must be installed and properly spaced to prevent antenna rotation from wind load.

NOTE: The antenna and clamp kit ship as two separate items.

PARTS LIST (Figure 1)

(8) Tower or antenna (single) clamp plates
(4) ½"-13 x 10" threaded bolts
(16) ½" Hex nuts
(16) ½" Split lock washers

Figure 1:
Clamp Set Contents

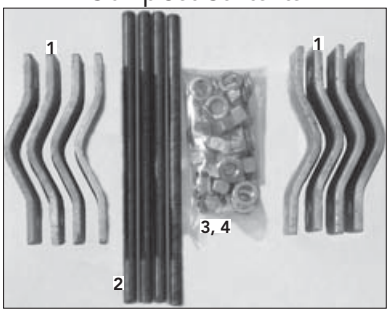
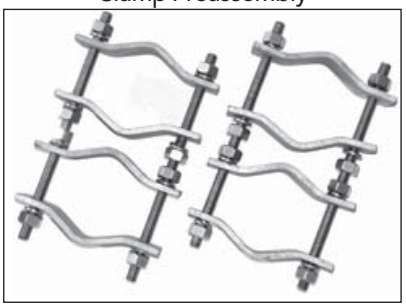


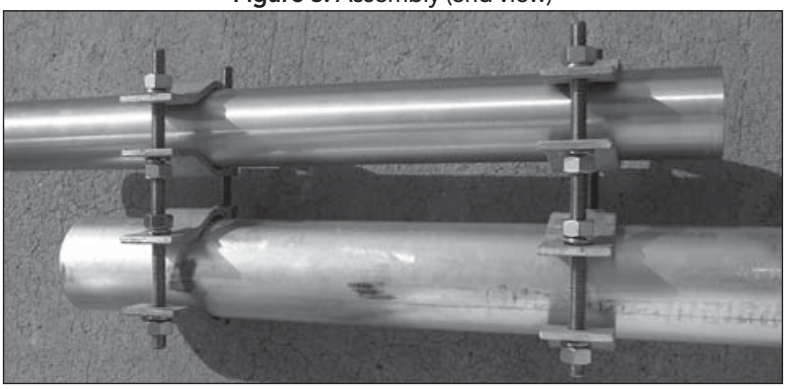
Figure 2:
Clamp Preassembly



MOUNTING INSTRUCTIONS

Thread bolts through welded dual clamps with hex nuts in the middle of the clamps as shown in figure 2. Do not preattach any other plates or nuts. Allowing proper spacing, mount both clamps to the support structure with 2 single clamp plates, hex nuts, and lock washers. Be sure to allow sufficient thread length on the antenna side of the clamps.

Figure 3: Assembly (end view)



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ANTC483/483SS CLAMP SET
FOR COLLINEAR ANTENNAS

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

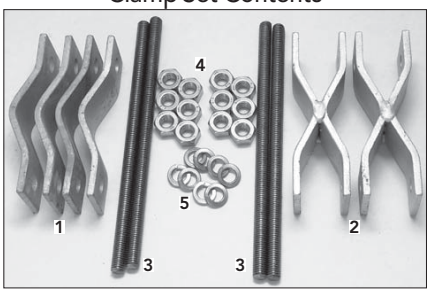
IMPORTANT

BEFORE ASSEMBLING AND MOUNTING:

Carefully read these instructions and study the diagrams. Check to make sure you have all parts. Both clamps must be installed and properly spaced to prevent antenna rotation from wind load.

NOTE: The antenna and clamp kit ship as two separate items.

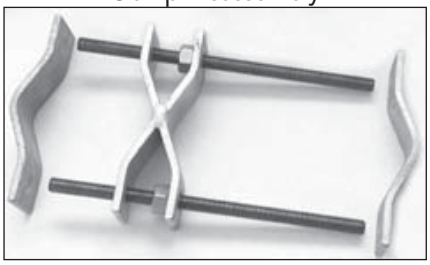
Figure 1:
Clamp Set Contents



PARTS LIST (Figure 1)

(4) Tower or antenna (single) clamp plates
(2) Welded (dual) clamp plates
(4) ½"-13 x 10" threaded bolts
(12) ½" Hex nuts
(8) ½" Split lock washers

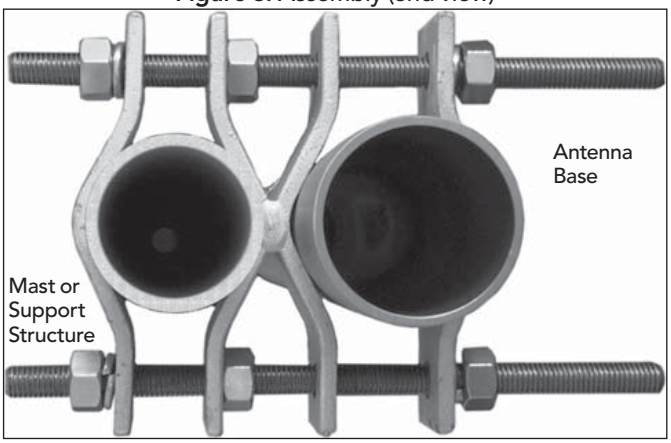
Figure 2:
Clamp Preassembly



MOUNTING INSTRUCTIONS

Thread bolts through welded dual clamps with hex nuts in the middle of the clamps as shown in figure 2. Do not preattach any other plates or nuts. Allowing proper spacing, mount both clamps to the support structure with 2 single clamp plates, hex nuts, and lock washers. Be sure to allow sufficient thread length on the antenna side of the clamps.

Figure 3: Assembly (end view)



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TWDS-7085 Rev. 2/07

30 - 1000 MHz

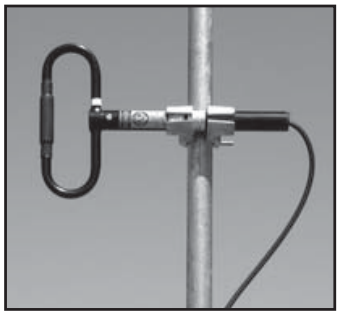
DIPOLE ANTENNAS

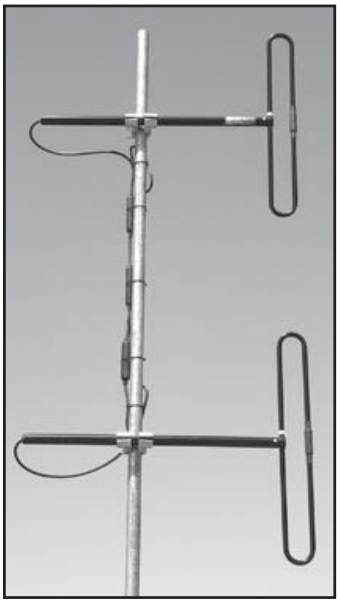
Telewave Dipole and Dipole Array antennas are built in the USA to withstand harsh conditions in the most demanding applications. Telewave dipoles are in service on mountaintops in Alaska, oil rigs in the Gulf of Mexico, Phillipine jungles, and the deserts of North Africa. Constructed from 6061-T6 aluminum, Telewave Dipoles feature broad bandwidth, and superior lightning impulse protection thanks to direct DC ground construction.

Telewave dipole antennas and arrays also feature a high-tech coating called *Txylan™*, which completely encapsulates all metal antenna components, providing total protection from water, corrosive chemicals, salt spray, and windblown abrasives.This smooth black coating also dramatically reduces surface friction, reducing and often preventing ice adhesion, while improving absorption of solar radiation.

All cabling is Mil-Spec RG-213/U, and all external connection points are sealed with Telewave's field-proven *MilleniumSeal™*, which provides permanent environmental protection. The RF feed cable and connection to each element is internally sealed within the element, eliminating any possibility of failure due to corrosion or ice expansion. The standard connector type is N-Female, and 7-16 DIN can be installed as an option for high power applications. Gain ranges from 1 to 12 dBd, depending on configuration and number of bays.

These antennas are UPS shippable, and the horizontal pattern is fully adjustable during installation. This unique flexibility means that a dipole with 2 or more bays can provide a directional, bi-directional, or nearly omni radiation pattern. Up to 15 degrees of mechanical and/or electrical tilt is also available for arrays, allowing a level of pattern control not possible with other antenna types.





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TWDS-7080 Rev. 2/07

33.5 - 41 MHz

ANT37D
DIPOLE ANTENNA

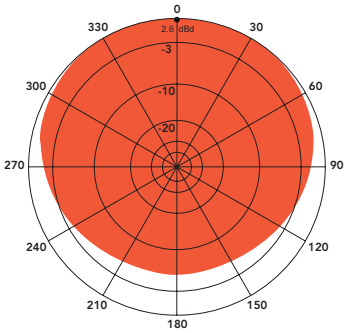
The Telewave ANT37D is a rugged, high-performance single dipole antenna designed for VHF lowband services, including public safety, utilities, paging links and military communication. This antenna provides 6.5 MHz bandwidth with no tuning required, and multiple elements can be stacked for increased gain and pattern control.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives.

ANT37D antennas include ANTC482 mounting hardware which will accommodate up to a 4" diameter galvanized steel support pipe or tower leg. Due to the size and potential wind loading of this antenna, tower side mounting is recommended.

SPECIFICATIONS	
Frequency (continuous)	33.5-41 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Offset circular
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain	2.5 dBd (typ.)
Vertical beamwidth	78 degrees
Horizontal beamwidth	170 degrees (typ.)
Dipole dimensions (H x W)	145" x 9"
Boom dimensions (L x Dia.) in.	96" x 3.5"
Weight (antenna + clamps)	51 lb.
Wind rating / 0.5" ice	125 / 100 MPH
Maximum exposed area	3.8 ft.²
Lateral thrust at 100 MPH	152 lb

ANT37D at 40 MHz



H-Plane gain 2.6 dBd
1/4 wl. spacing from tower

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37.5 - 44.5 MHz

ANT40D
DIPOLE ANTENNA

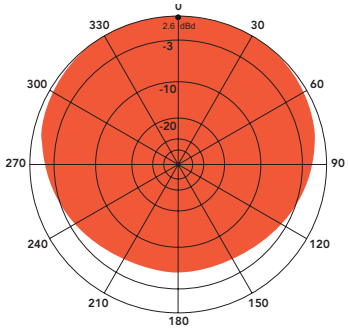
The Telewave ANT40D is a rugged, high-performance single dipole antenna designed for VHF lowband services, including public safety, utilities, paging links or military communication. This antenna provides 7 MHz bandwidth with no tuning required, and multiple elements can be stacked for increased gain and pattern control.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives.

ANT40D antennas include ANTC482 mounting hardware which will accommodate up to a 4" diameter galvanized steel support pipe or tower leg. Due to the size and potential wind loading of this antenna, tower side mounting is recommended.

SPECIFICATIONS	
Frequency (continuous)	37.5-44.5 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Offset circular
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain (typ.)	2.5 dBd
Vertical beamwidth	78 degrees
Horizontal beamwidth	Dependent on pattern
Dipole dimensions (H x W)	129" x 9"
Boom dimensions (L x Dia.) in.	96" x 3.5"
Weight (antenna + clamps)	46 lb.
Wind rating / 0.5" ice	125 / 100 MPH
Maximum exposed area	3.6 ft.²
Lateral thrust at 100 MPH	142 lb

ANT40D at 40 MHz



H-Plane gain 2.6 dBd
1/4 wl. spacing from tower

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TWDS-7097 Rev. 4/07

45 - 54 MHz

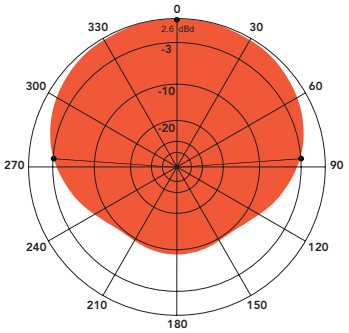
ANT50D
DIPOLE ANTENNA

The Telewave ANT50D is a rugged, high-performance single dipole antenna designed for VHF lowband services, including public safety, utilities, paging links or military communication. This antenna provides 9 MHz bandwidth with no tuning required. The horizontal pattern is adjustable, and multiple elements can be stacked for increased gain and pattern control.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives.

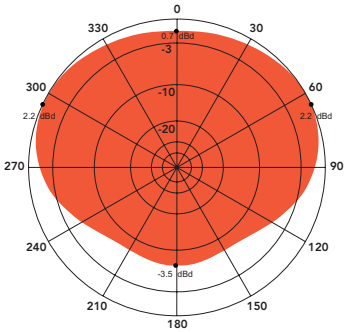
ANT50D antennas include ANTC482 mounting hardware which will accommodate up to a 4" diameter galvanized steel support pipe or tower leg. Due to the size and potential wind loading of this antenna, tower side mounting is recommended.

SPECIFICATIONS	
Frequency (continuous)	45-54 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Adjustable: offset circular or cardioid
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain (dependent on pattern)	1-2.5 dBd
Vertical beamwidth	78 degrees
Horizontal beamwidth	Dependent on pattern
Dipole dimensions (H x W)	108" x 9"
Boom dimensions (L x Dia.) in.	96" x 3.5"
Weight (antenna + clamps)	43 lb.
Wind rating / 0.5" ice	125 / 100 MPH
Maximum exposed area	3.2 ft.²
Lateral thrust at 100 MPH	129 lb



H-Plane gain 2.6 dBd
1/4 wl. spacing from tower

ANT50D at 49 MHz



H-Plane gain 0.7 dBd
3/8 wl. spacing from tower

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TWDS-7067 Rev. 4/07

63 - 78 MHz

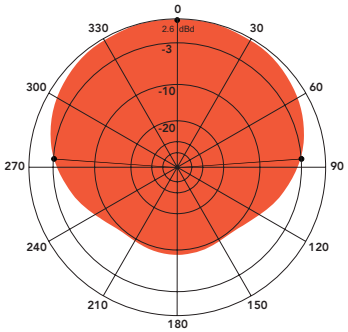
ANT70D
DIPOLE ANTENNA

The Telewave ANT70D is a rugged, high-performance single dipole antenna designed for VHF midband services, including utilities, paging links, control stations or military communication. This antenna provides 15 MHz bandwidth with no tuning required. The horizontal pattern is adjustable, and multiple elements can be stacked for increased gain and pattern control.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating.

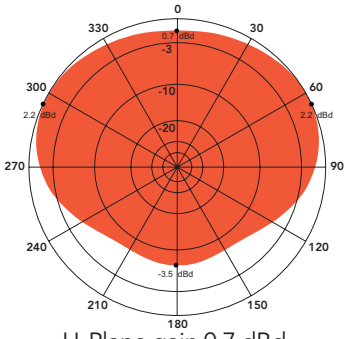
This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-3.5" diameter galvanized steel support pipe or tower leg.

SPECIFICATIONS	
Frequency (continuous)	63-78 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Adjustable for offset circular, cardioid, or bidirectional
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain (dependent on pattern)	1-2.5 dBd
Vertical beamwidth	78 degrees
Horizontal beamwidth	Dependent on pattern
Dipole dimensions (H x W)	76" x 7"
Boom dimensions (L x Dia.)	84" x 2.25"
Weight (antenna + clamps)	21 lb.
Wind rating / 0.5" ice	150 / 125 MPH
Maximum exposed area	2.7 ft.²
Lateral thrust at 100 MPH	109 lb



H-Plane gain 2.6 dBd
1/4 wl. spacing from tower

ANT70D at 70 MHz



H-Plane gain 0.7 dBd
3/8 wl. spacing from tower

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TWDS-7098 Rev. 4/07

66 - 88 MHz

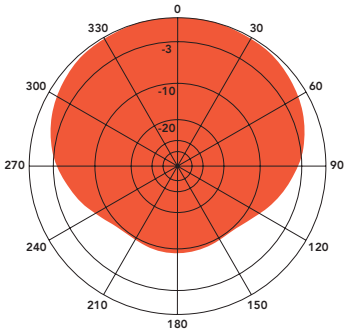
ANT75D
SINGLE DIPOLE ANTENNA

The Telewave ANT75D is a rugged, high-performance single dipole antenna designed for VHF midband services, including utilities, paging links, control stations or military communication. This antenna provides 22 MHz bandwidth with no tuning required. The horizontal pattern is adjustable, and multiple elements can be stacked for increased gain and pattern control.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating.

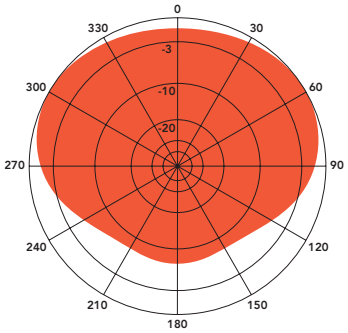
This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-3.5" diameter galvanized steel support pipe or tower leg.

SPECIFICATIONS	
Frequency (continuous)	66-88 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Adjustable: Offset circular, cardioid, or bidirectional
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain (dependent on pattern)	1-2.5 dBd
Vertical beamwidth	78°
Horizontal beamwidth	Dependent on pattern
Dipole dimensions (H x W)	68" x 7"
Boom dimensions (L x Dia.)	65" x 1.25"
Weight (antenna + clamps)	21 lb.
Wind rating / 0.5" ice	150 / 120 MPH
Maximum exposed area	2.3 ft.²
Lateral thrust at 100 MPH	92 lb



H-Plane gain 2.6 dBd
1/4 wl. spacing from tower

ANT75D at 75 MHz



H-Plane gain 0.7 dBd
3/8 wl. spacing from tower

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TWDS-7076 Rev. 4/07

88 - 108 MHz

ANT90D

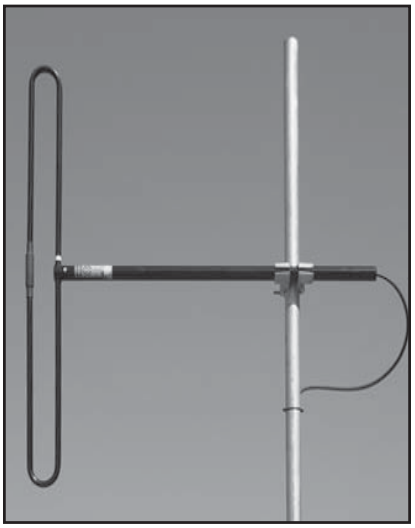
SINGLE DIPOLE FM BROADCAST

The Telewave ANT90D is a rugged, high-performance single dipole antenna designed for the FM broadcast band. This antenna provides 20 MHz bandwidth with no tuning required. The horizontal pattern is adjustable, and multiple elements can be stacked for increased gain and pattern control. This antenna is ideal for LPFM and translator stations for fill-in or small-market coverage.

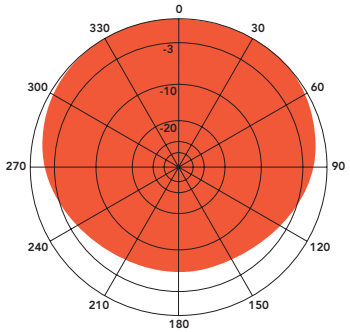
Up to 15 degrees of electrical uptilt or downtilt may be specified for multiple element arrays. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating.

This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-3.5" diameter galvanized steel support pipe or tower leg.

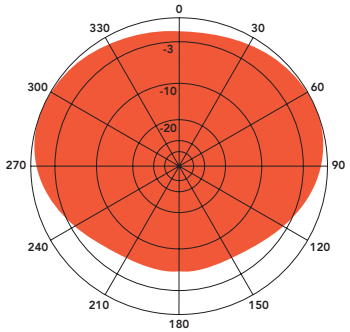


SPECIFICATIONS	
Frequency (continuous)	88-108 MHz
Power rating (typ.)	500 watts
Impedance	50 ohms
VSWR	1.5:1 or less
Pattern	Adjustable: Offset circular, cardioid, or bidirectional
Lightning protection	DC Ground
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable
Gain (dependent on pattern)	1-2.05 dBd
Vertical beamwidth	1/4 wl. - 70°, 1/2 wl. - 73° 3/8 wl. - 84°
Horizontal beamwidth	1/4 wl. - 210°, 1/2 wl. - 88° 3/8 wl. - 240°
Dimensions (H x mast distance) max.	56" x 60"
Weight (antenna + clamps)	18 lb.
Wind rating / 0.5" ice	125 / 100 MPH
Maximum exposed area	1.9 ft.²
Lateral thrust at 100 MPH	74 lb.



H-Plane, Gain = 2.1 dBd
Spaced 1/4 wl. from mast

ANT90D at 98 MHz



H-Plane, Gain = 1.9 dBd
Spaced 3/8 wl. from mast

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TWDS-7028 Rev. 4/07

110 - 138 MHz

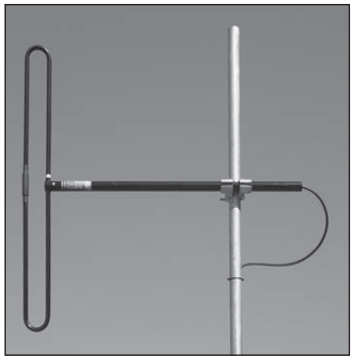
ANT120D, D3
DIPOLE AND DIPOLE ARRAY

The Telewave ANT120D series consists of rugged, high-performance single or dual dipole arrays designed for aircraft communications, telemetry, and military applications. The horizontal pattern is adjustable, and each element can be adjusted for increased gain and pattern control.

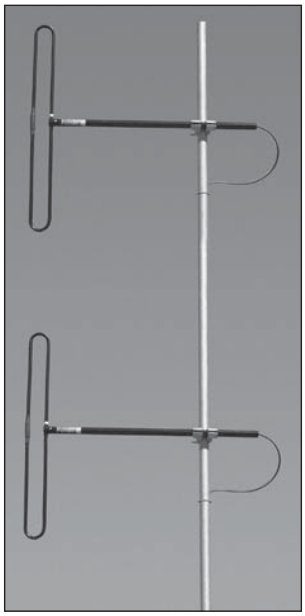
Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives.

A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



ANT120D Single Dipole

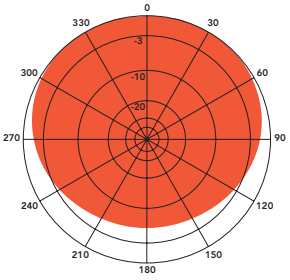


ANT120D3 Dipole Array
(Cable harness not shown)
Support mast is customer-supplied

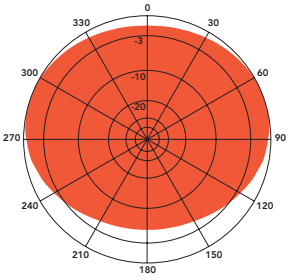
COMMON SPECIFICATIONS			
Frequency (continuous)	110-138 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT120D	ANT120D3
Gain (dependent on pattern)	1-2.5 dBd	3-5.6 dBd
Vertical beamwidth (3/8 wl.)	90°	34°
Dimensions (H x D) max.	43" x 56"	124" x 56"
Weight (antenna + clamps)	7 lb.	15 lb.
Maximum exposed area	0.91 ft.²	1.9 ft.²
Lateral thrust at 100 MPH	36 lb.	75 lb.
Electrical uptilt / downtilt	N/A	1-15°

ANT120D

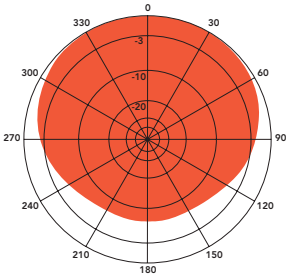


H-Plane gain 2.4 dBd
Spaced 1/4 wl. from mast

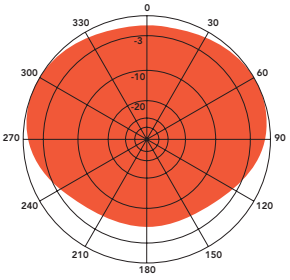


H-Plane gain 1.9 dBd
Spaced 3/8 wl. from mast

ANT120D3



H-Plane gain 6.0 dBd
Spaced 1/4 wl. from mast



H-Plane gain 5.6 dBd
Spaced 3/8 wl. from mast

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TWDS-7060 Rev. 4/07

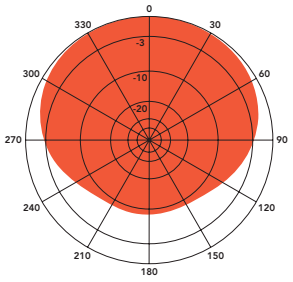
ANT150D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

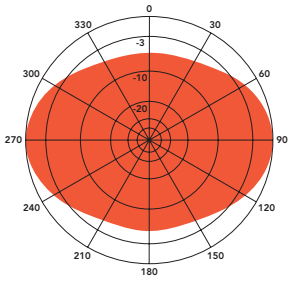
The Telewave ANT150D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

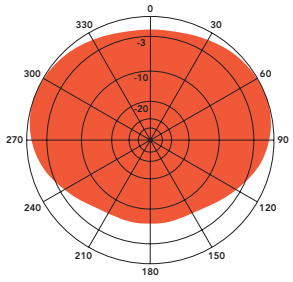
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



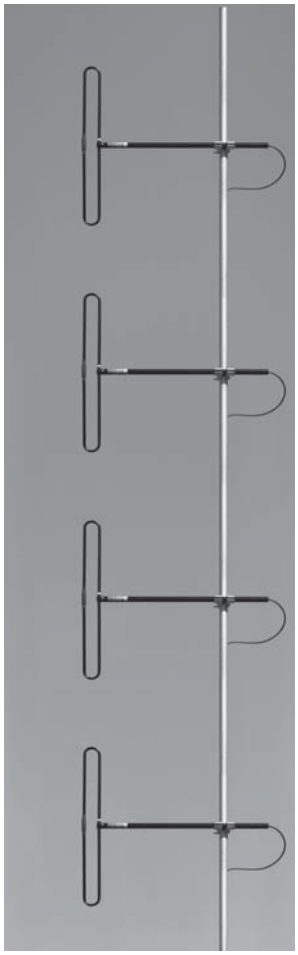
H-Plane: Gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane: Gain 9.1 dBd
1/2 wl. spacing from tower



H-Plane: Gain 8.5 dBd
3/8 wl. spacing from tower



ANT150D6-9
(Harness not shown)
Support mast is
customer-supplied

COMMON SPECIFICATIONS			
Frequency (continuous)	138-174 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL	ANT150D	ANT150D3	ANT150D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	78°	37°	18°
Dimensions (H x D) max.	34" x 36"	120" x 36"	240" x 36"
Weight (antenna + clamps)	5 lb.	13 lb.	28 lb.
Maximum exposed area	0.73 ft.²	1.6 ft.²	3.3 ft.²
Lateral thrust at 100 MPH	29 lbs	64 lbs	134 lbs
Electrical uptilt or downtilt	N/A	1-15°	1-15°

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ANT150D7-12

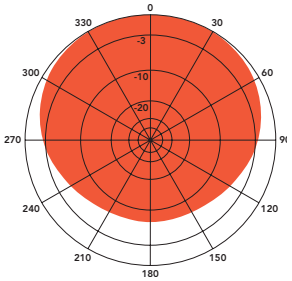
DIPOLE AND DIPOLE ARRAY 7 TO 12 dBd

The Telewave ANT150D7-12 is an 8-element dipole array antenna with a precision phasing harness for optimum performance. The horizontal pattern is field-adjustable, to accommodate any current or future coverage requirements. The high gain, wide bandwidth, and high efficiency of the ANT150D7-12 make it ideal for any application including combined transmitters.

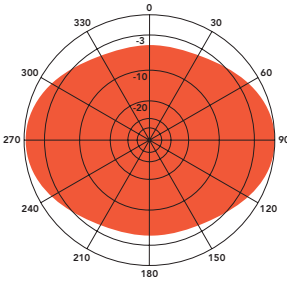
Each antenna consists of two arrays of 4 elements with a power divider in the center, which greatly reduces feedline losses. The antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

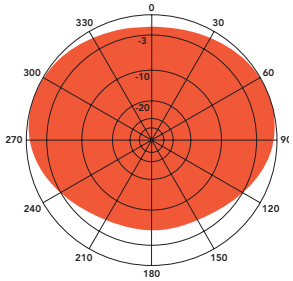
All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



H-Plane gain 12.2 dBd
1/4 wl. spacing from tower

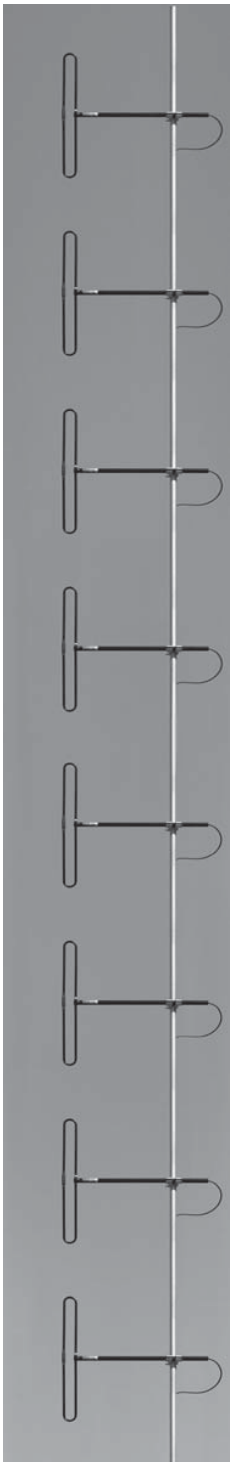


H-Plane gain 11.8 dBd
1/2 wl. spacing from tower



H-Plane gain 12.7 dBd
3/8 wl. spacing from tower

SPECIFICATIONS			
Frequency (continuous)	138-174 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	150 MPH
Impedance	50 ohms	**(with 0.5" ice)**	125 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		
Gain (dependent on pattern)	7-12 dBd		
Vertical beamwidth (3/8 wl.)	8°		
Dimensions (H x D) max.	480" x 36"D (1/2 wl. spacing)		
Weight (antenna + clamps)	60 lb.		
Maximum exposed area	6.8 ft.²		
Lateral thrust at 100 MPH	282 lb.		
Electrical uptilt / downtilt	2-15°		



ANT150D7-12
(Harness not shown)
Support mast is
customer-supplied

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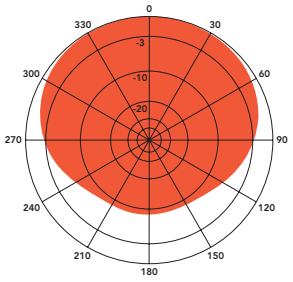
ANT220D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

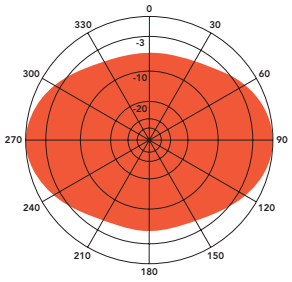
The Telewave ANT220D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

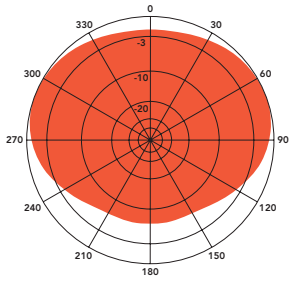
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



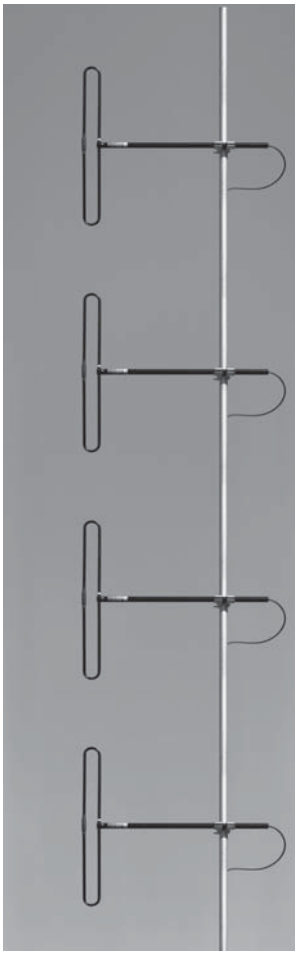
H-Plane: Gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane: Gain 9.1 dBd
1/2 wl. spacing from tower



H-Plane: Gain 8.5 dBd
3/8 wl. spacing from tower



ANT220D6-9
(Harness not shown)
Support mast is
customer-supplied

COMMON SPECIFICATIONS			
Frequency (continuous)	216-252 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT220D	ANT220D3	ANT220D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 spacing)	78°	37°	18°
Dimensions (H x D) max.	35" x 30"	61" x 30"	132" x 30"
Weight (antenna + clamps)	8 lb.	17 lb.	36 lb.
Maximum exposed area	0.51 ft.²	1.1 ft.²	2.3 ft.²
Lateral thrust at 100 MPH	20 lb.	43 lb.	94 lb.
Electrical uptilt / downtilt	N/A	1-15°	1-15°

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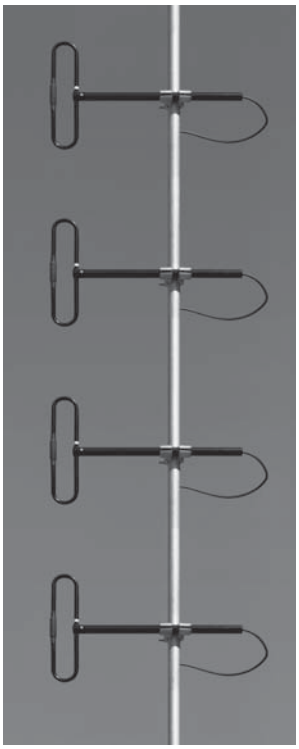
ANT275D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

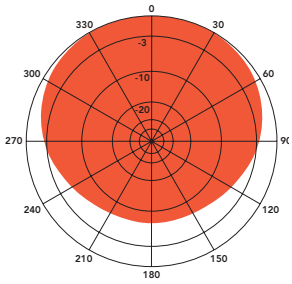
The Telewave ANT275D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

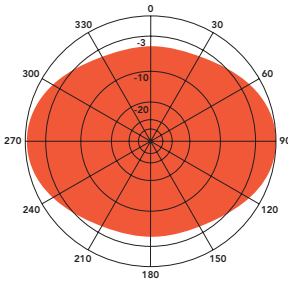
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



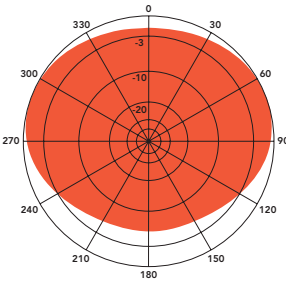
ANT275D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane gain 9.0 dBd
1/2 wl. spacing from tower



H-Plane gain 8.8 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	230-330 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	150 MPH
Impedance	50 ohms	**(with 0.5" ice)**	125 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT275D	ANT275D3	ANT275D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	78°	34°	15°
Dimensions (H x D) (max)	32" x 18"	68" x 18"	90" x 18"
Weight (antenna + clamps)	6 lb.	11 lb.	19 lb.
Maximum exposed area	0.45 ft.²	1.0 ft.²	2.1 ft.²
Lateral thrust at 100 MPH	18 lb.	39 lb.	83 lb.
Electrical uptilt / downtilt	N/A	1-15°	1-15°

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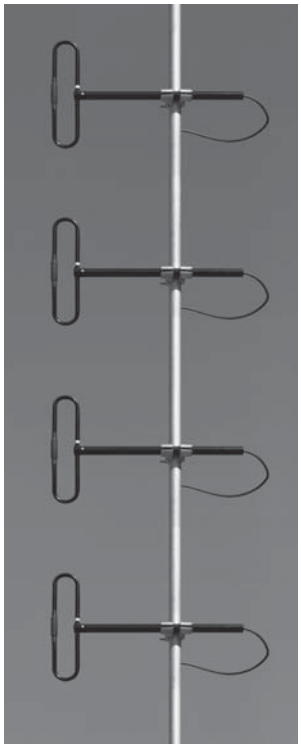
ANT350D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

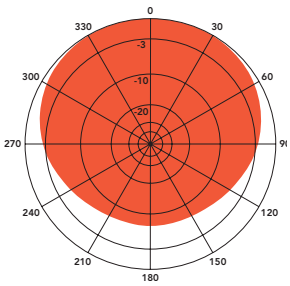
The Telewave ANT350D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

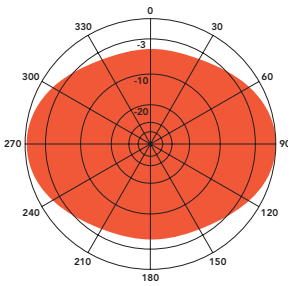
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



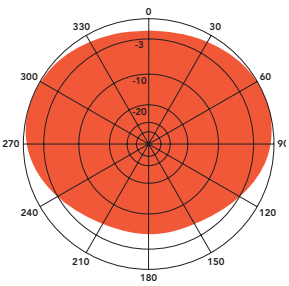
ANT350D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane gain 9.1 dBd
1/2 wl. spacing from tower



H-Plane gain 8.5 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	300-360 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT350D	ANT350D3	ANT350D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	71°	24°	15°
Dimensions (H x D) (max)	18" x 13"	34" x 13"	72" x 13"
Weight (antenna + clamps)	6 lb.	13 lb.	18 lb.
Maximum exposed area	0.36 ft.²	0.78 ft.²	1.7 ft.²
Lateral thrust at 100 MPH	15 lb.	34 lb.	73 lb.
Electrical uptilt / downtilt	N/A	1-15°	1-15°

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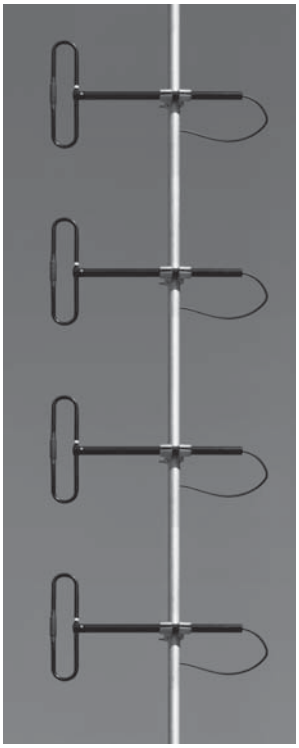
ANT375D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

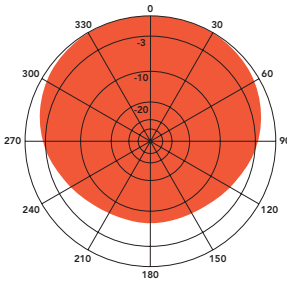
The Telewave ANT375D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

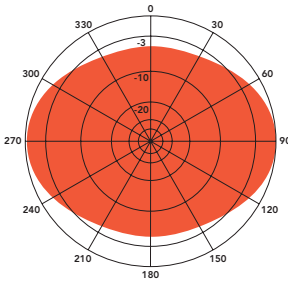
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



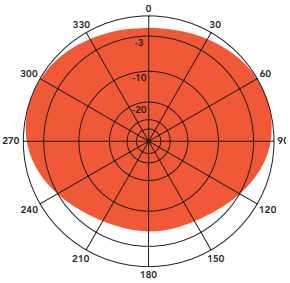
ANT375D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.17 dBd
1/4 wl. spacing from tower



H-Plane gain 9.1 dBd
1/2 wl. spacing from tower



H-Plane gain 8.5 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	345-405 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT375D	ANT375D3	ANT375D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	71°	24°	15°
Dimensions (H x D) (max)	18" x 17"	24" x 17"	72" x 17"
Weight (antenna + clamps)	7 lb.	15 lb.	25 lb.
Maximum exposed area	0.35 ft.²	0.76 ft.²	1.7 ft.²
Lateral thrust at 100 MPH	14 lb.	32 lb.	70 lb.
Electrical uptilt / downtilt	N/A	1-15°	1-15°

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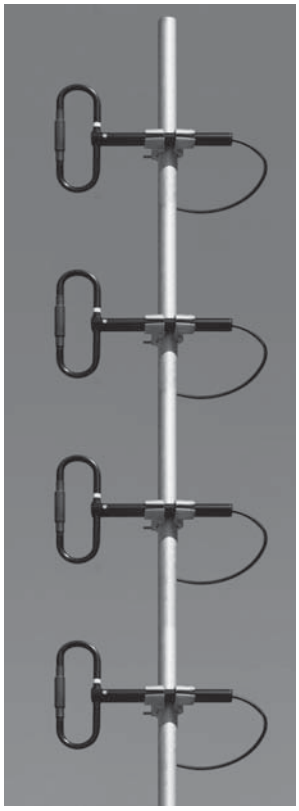
ANT400D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

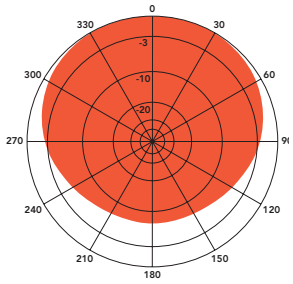
The Telewave ANT400D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

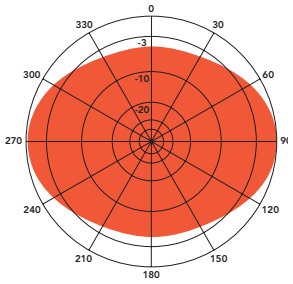
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



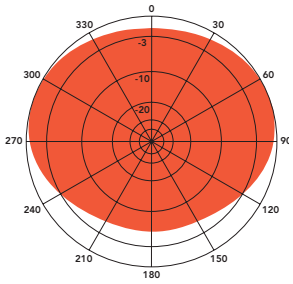
ANT400D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.07 dBd
1/4 wl. spacing from tower



H-Plane gain 9.10 dBd
1/2 wl. spacing from tower



H-Plane gain 8.46 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	360-450 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT400D	ANT400D3	ANT400D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	71°	24°	15°
Dimensions (H x D) (max)	18" x 17"	34" x 17"	72" x 17"
Weight (antenna + clamps)	6 lbs	13 lbs	18 lbs
Maximum exposed area	0.34 ft.²	0.72 ft.²	1.5 ft.²
Lateral thrust at 100 MPH	13 lbs	30 lbs	64 lbs
Electrical uptilt / downtilt	N/A	1-15°	1-15°

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406 - 512 MHz

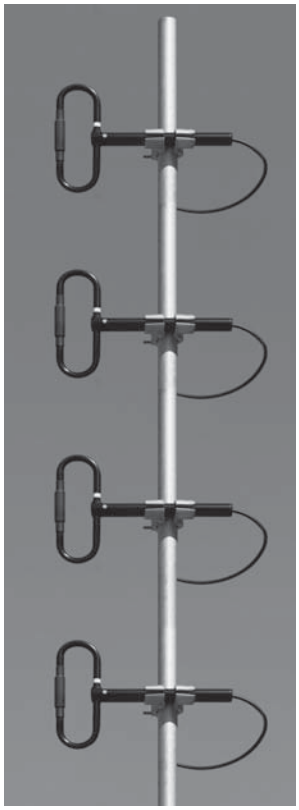
ANT450D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

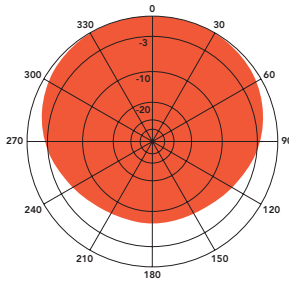
The Telewave ANT450D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas make them ideal for applications requiring combined transmitters, including trunking, business, public safety, and paging.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 and D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

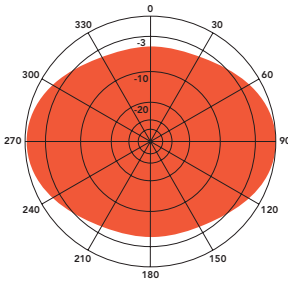
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



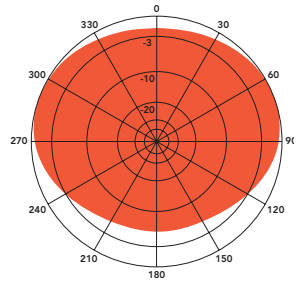
ANT450D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane gain 9.1 dBd
1/2 wl. spacing from tower



H-Plane gain 8.5 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	406-512 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT450D	ANT450D3	ANT450D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	71°	24°	15°
Dimensions (H x D) (max)	18" x 17"	34" x 17"	72" x 17"
Weight (antenna + clamps)	6 lbs	13 lbs	18 lbs
Maximum exposed area	0.27 ft.²	0.68 ft.²	1.4 ft.²
Lateral thrust at 100 MPH	11 lbs	28 lbs	60 lbs
Electrical uptilt / downtilt	N/A	1-15°	1-15°

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TWDS-7033 Rev. 4/07

406 - 512 MHz

ANT450D7-12

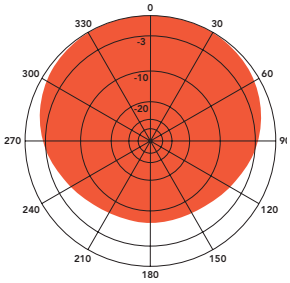
DIPOLE AND DIPOLE ARRAY 7 TO 12 dBd

The Telewave ANT450D7-12 is an 8-element dipole array antenna with a precision phasing harness for optimum performance. The horizontal pattern is field-adjustable, to accommodate any current or future coverage requirements. The high gain, wide bandwidth, and high efficiency of the ANT450D7-12 make it ideal for any application including combined transmitters.

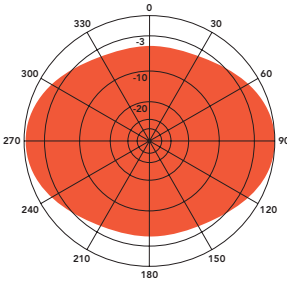
Each antenna consists of two arrays of 4 elements with a power divider in the center, which greatly reduces feedline losses. The antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation.

Up to 15 degrees of electrical uptilt or downtilt may be specified for D3 or D6-9 models. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

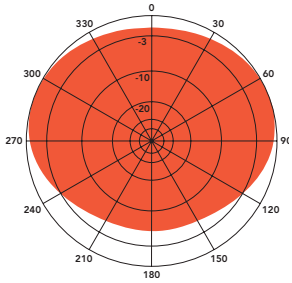
All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



H-Plane gain 12.2 dBd
1/4 wl. spacing from tower

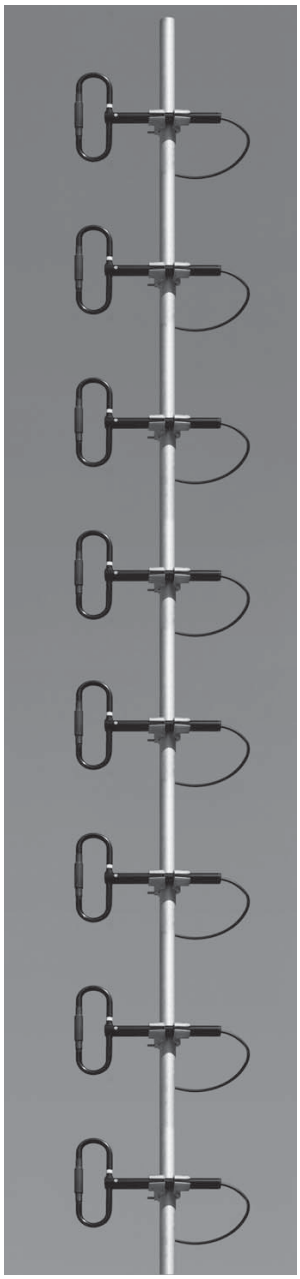


H-Plane gain 11.8 dBd
1/2 wl. spacing from tower



H-Plane gain 12.7 dBd
3/8 wl. spacing from tower

SPECIFICATIONS			
Frequency (continuous)	406-512 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	150 MPH
Impedance	50 ohms	**(with 0.5" ice)**	125 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		
Gain (dependent on pattern)	7-12 dBd		
Vertical beamwidth (3/8 wl.)	7.5°		
Dimensions (H x D) max.	144" x 17" (1/2 wl. spacing)		
Weight (antenna + clamps)	36 lb.		
Maximum exposed area	2.9 ft.²		
Lateral thrust at 100 MPH	135 lb.		
Electrical uptilt / downtilt	2-15°		



ANT450D7-12
(Harness not shown)
Support mast is
customer-supplied

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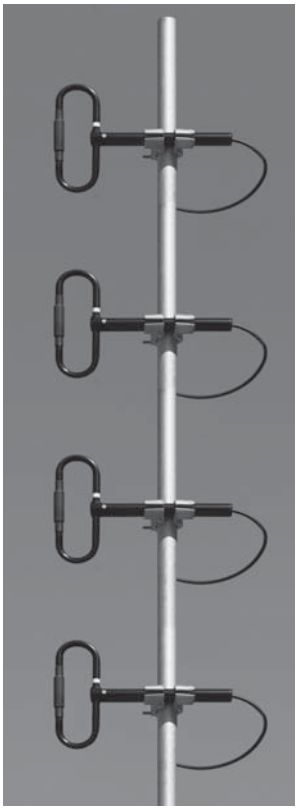
ANT500D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

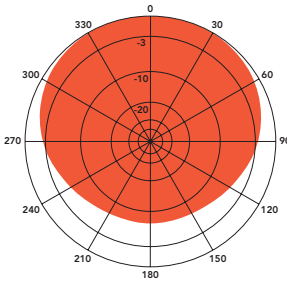
The Telewave ANT500D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas are particularly suited for combining applications in trunking, business, public safety, and paging.

Mechanical and electrical uptilt or downtilt are available as options. Desired tilt angle must be included on the order, and consultation with our antenna engineering staff is requested.

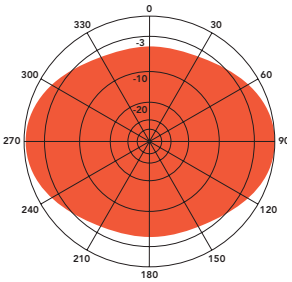
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



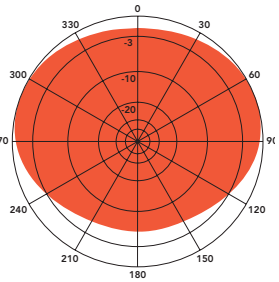
ANT500D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane gain 9.1 dBd
1/2 wl. spacing from tower



H-Plane gain 8.5 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	470-550 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	175 MPH
Impedance	50 ohms	**(with 0.5" ice)**	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT500D	ANT500D3	ANT500D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	78°	33°	18°
Dimensions (H x D) (max)	11" x 14"	29" x 14"	66" x 14"
Weight (antenna + clamps)	7 lb.	14 lb.	28 lb.
Maximum exposed area	0.26 ft.²	0.56 ft.²	1.2 ft.²
Lateral thrust at 100 MPH	10 lb.	22 lb.	50 lb.

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700 - 825 MHz

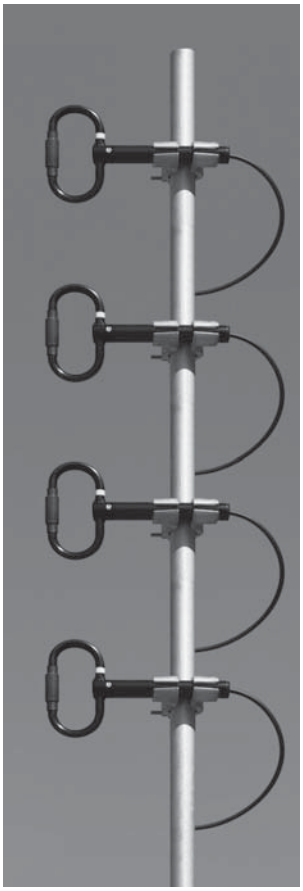
ANT750D, D3, D6-9

DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

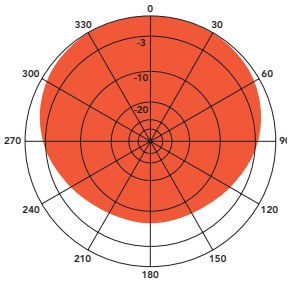
The Telewave ANT750D series consists of single, dual, and 4-element dipole array antennas with a precision phasing harness for optimum performance. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The wide bandwidth and high efficiency of these antennas are particularly suited for combining applications in trunking, business, public safety, and paging.

Mechanical and electrical uptilt or downtilt are available as options. Desired tilt angle must be specified on the order, and consultation with our antenna engineering staff is requested.

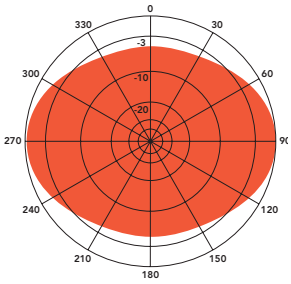
Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. All components are at DC ground potential for lightning protection, and each antenna is completely protected with our high-tech *Txylan™* coating. This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



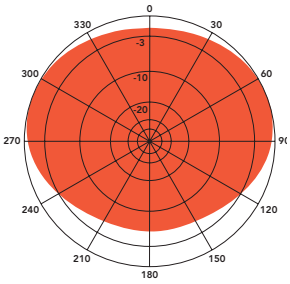
ANT750D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.1 dBd
1/4 wl. spacing from tower



H-Plane gain 8.9 dBd
1/2 wl. spacing from tower



H-Plane gain 9.2 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	700-825 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	200 MPH
Impedance	50 ohms	**(with 0.5" ice)**	175 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT750D	ANT750D3	ANT750D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	68°	33°	18°
Dimensions (H x D) (max)	7" x 10"	19" x 10"	42" x 10"
Weight (antenna + clamps)	7 lb.	14 lb.	28 lb.
Maximum exposed area	0.17 ft.²	0.42 ft.²	0.91 ft.²
Lateral thrust at 100 MPH	7 lb.	17 lb.	38 lb.

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800 - 1000 MHz

ANT900D, D3, D6-9

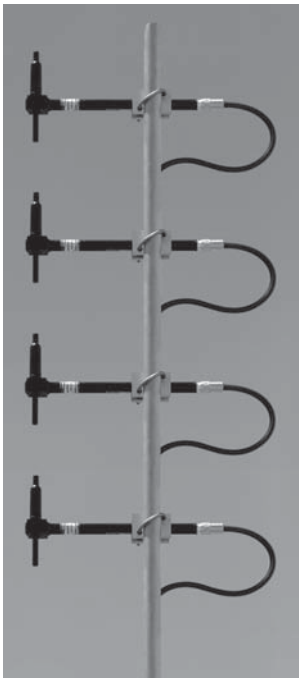
DIPOLE AND DIPOLE ARRAY 1 TO 9 dBd

The Telewave ANT900D series consists of single, dual, and 4-element dipole array antennas. The antenna horizontal pattern is uniquely field-adjustable, and can accommodate any current or future coverage requirements. The exceptionally wide bandwidth and high efficiency of these antennas are particularly suited for combining applications in trunking, cellular, data, and paging.

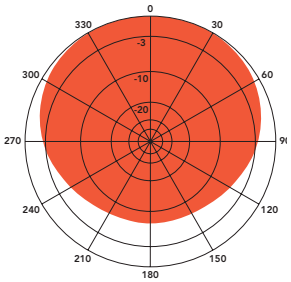
Mechanical and electrical uptilt or downtilt are available as options. Desired tilt angle must be specified on the order, and consultation with our antenna engineering staff is requested.

Each antenna is constructed with 6061-T6 aluminum, welded at the base connection to prevent intermodulation. The 2 and 4 element arrays utilize a power divider for minimum loss, and each antenna is completely protected with our high-tech *Txylan™* coating.

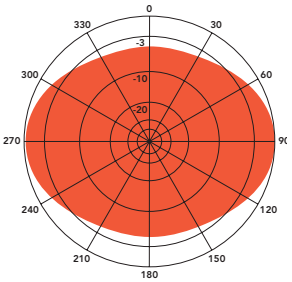
This smooth black coating resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. A full clamp set is included for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



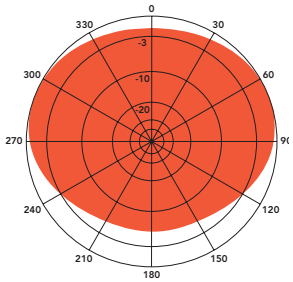
ANT900D6-9
(Harness not shown)
Support mast is
customer-supplied



H-Plane gain 9.27 dBd
1/4 wl. spacing from tower



H-Plane gain 8.7 dBd
1/2 wl. spacing from tower



H-Plane gain 9.1 dBd
3/8 wl. spacing from tower

COMMON SPECIFICATIONS			
Frequency (continuous)	800-1000 MHz	**Lightning protection**	DC Ground
Power rating (typ.)	500 watts	**Wind rating**	200 MPH
Impedance	50 ohms	**(with 0.5" ice)**	175 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Male or 7-16 DIN (opt.) on harness feed cable		

MODEL SPECIFICATIONS	ANT900D	ANT900D3	ANT900D6-9
Gain (dependent on pattern)	1-2.5 dBd	3-6 dBd	6-9 dBd
Vertical beamwidth (3/8 wl.)	84°	35°	17°
Dimensions (H x D) (max)	6" x 6"	24" x 6"	48" x 6"
Weight (antenna + clamps)	3 lb.	7 lb.	11 lb.
Maximum exposed area	0.1 ft.²	0.2 ft.²	0.4 ft.²
Lateral thrust at 100 MPH	4 lb.	9 lb.	20 lb.

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30 - 1000 MHz

OPEN DIPOLE ANTENNAS
MOUNTING INSTRUCTIONS

IMPORTANT - BEFORE ASSEMBLING AND MOUNTING:
Carefully read all instructions and study the diagrams. Check to make sure all parts are on hand.

PARTS LIST

SINGLE DIPOLE - xxxD

(1) Dipole and clamp assembly
(1) 1/4"-20 hex bolt
(1) 1/4"-20 lock washer
(2) 3/8" split hex nuts
(2) 3/8" hex nuts
(2) 3/8" x 3.5" hex bolts

TWO DIPOLES - xxxD3

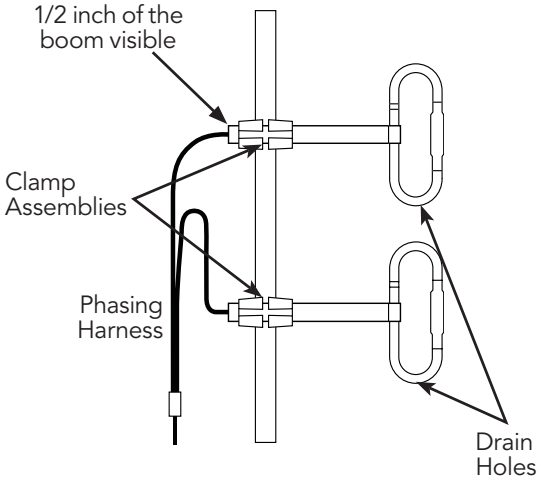
(1) Dipole and clamp assembly
(1) 1/4"-20 hex bolt
(1) 1/4"-20 lock washer
(2) 3/8" split hex nuts
(2) 3/8" hex nuts
(2) 3/8" x 3.5" hex bolts

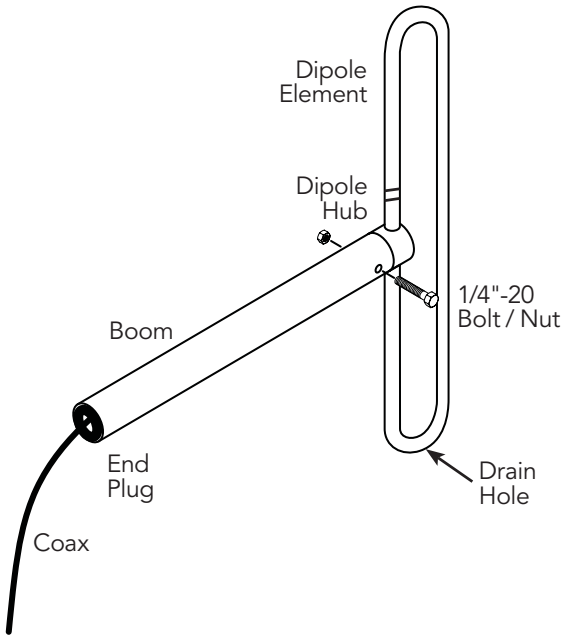
FOUR DIPOLES - xxxD6-9

(1) Dipole and clamp assembly
(1) 1/4"-20 hex bolt
(1) 1/4"-20 lock washer
(2) 3/8" split hex nuts
(2) 3/8" hex nuts
(2) 3/8" x 3.5" hex bolts

ASSEMBLY INSTRUCTIONS

1. Remove components from shipping box and lay out the dipole and cable assemblies, ideally in a large, sheltered area. Arrange the assemblies in order as cable lengths allow.
2. Refer to the diagram. Slide the boom over the dipole hub, and align the holes in the boom with the holes in the hub. install the 14"-20 bolt and nut, and tighten to 20 ft. lb. torque. Press the plug located on the dipole feed cable into the end of the boom.
3. Refer to the appropriate "Pattern Adjustment for Dipoles" sheet for the frequency of the antenna. Using the chart titled "Dipole Mounting and Mast Specifications", measure and mark the support structure for the proper dipole element spacing. Mount each dipole assembly to the mast with clamps as shown in the diagram. Locate the drain hole on each element, and be certain it is pointing down.
4. Refer to the chart titled "Mast to Dipole Dimensions", and determine the proper horizontal element spacing from the mast or support structure for the desired coverage pattern. At least 1/2 inch of the boom should be visible on the back side of the clamps.
5. Secure the dipole assemblies to the support with the supplied 3/8" nuts, washers and bolts, while adjusting each dipole position on the support.
6. Secure the cable assembly to the support.





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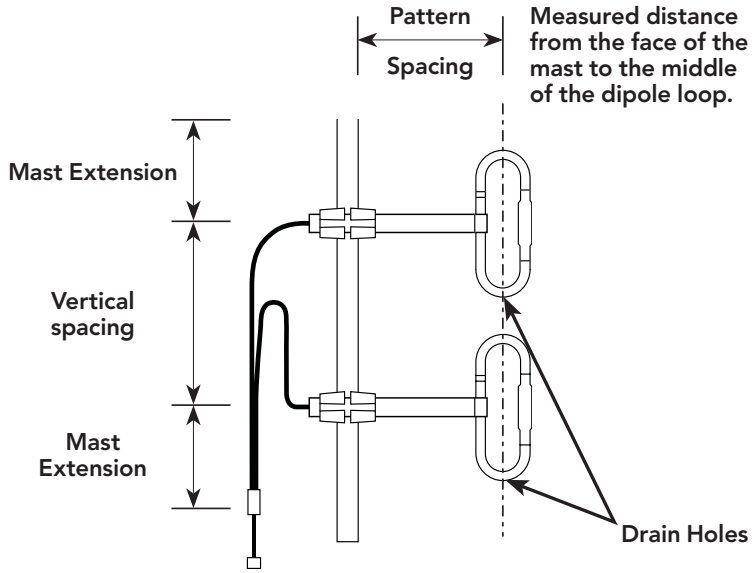
TWDS-7089 Rev. 2/07

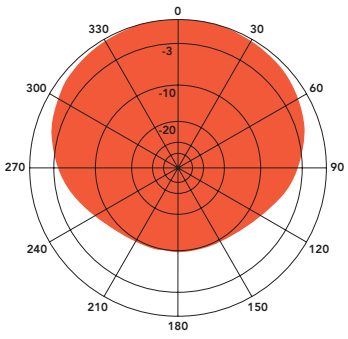
DIPOLE PATTERN ADJUSTMENT

Telewave exposed dipoles are field adjustable to provide different horizontal patterns and gain values. The horizontal spacing from tower between the dipole and the support mast or tower leg controls this adjustment. Review the patterns below to determine which is best suited to your range area requirements. Use the charts on the next page to find the appropriate dimensions for antenna to mast spacing, and the required vertical spacing for multi-bay arrays.

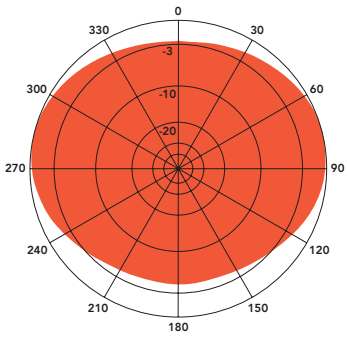


IMPORTANT: Be sure that the drain holes are on the bottom when the elements are installed.

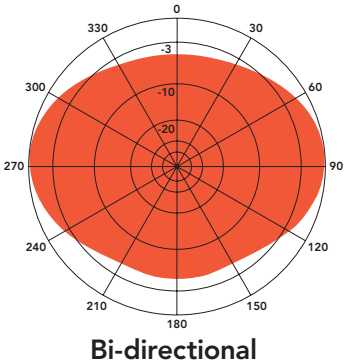
Horizontal radiation patterns



Offset Circular
1/4 wavelength spacing



Cardioid
3/8 wavelength spacing



Bi-directional
1/2 wavelength spacing

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DIPOLE PATTERN ADJUSTMENT

DIPOLE MOUNTING AND MAST SPECIFICATIONS

Mast lengths shown are minimum acceptable lengths to insure proper pattern control. Longer masts are acceptable, but the dipole or array must be centered on the support to prevent beam tilt. The clamps provided with the dipoles will work properly to attach the dipole boom to a mast that is between 1.5 to 2.5 inches in diameter. To attach to smaller supports (1-1.5" diameter), use ANTS420 shims. This allows direct mounting to small towers such as the Rohn 25 and 45.

MAST MINIMUM LENGTH AND ELEMENT VERTICAL SPACING

ANTENNA	MAST LENGTH	MAST EXTENSION	VERTICAL SPACING	MINIMUM MAST TYPE
ANT37D				
ANT40D	CONTACT TELEWAVE FOR MOUNTING ADVICE			
ANT50D				
ANT70D	6'-7"	3'-3.5"	N/A	2.0" Schedule 40 Galvanized Pipe
ANT75D	6'-7"	3'-3.5"	N/A	2.0" Schedule 40 Galvanized Pipe
ANT75D3	16'-2"	4'-1"	9'-7"	2.0" Schedule 40 Galvanized Pipe
ANT90D	5'-6"	2'-9"	N/A	2.0" Schedule 40 Galvanized Pipe
ANT90D3	13'-8"	2'-9"	8'-2"	2.0" Schedule 40 Galvanized Pipe
ANT120D	4'-2"	2'-1"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT120D3	10'	2'-1"	6'-2"	2.0" Schedule 40 Galvanized Pipe
ANT120D6-9	21'	15"	6'-2"	2.0" Schedule 40 Galvanized Pipe
ANT150D	3'	18"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT150D3	7'-6"	18"	4'-5"	1.5" Schedule 40 Galvanized Pipe
ANT150D6-9	16'-3"	18"	4'-5"	2.0" Schedule 40 Galvanized Pipe
ANT220D	2'-4"	14"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT220D3	5'-6"	14"	3'-1.5"	1.5" Schedule 40 Galvanized Pipe
ANT220D6-9	11'-8"	14"	3'-1.5"	1.5" Schedule 40 Galvanized Pipe
ANT275D	2'	12"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT275D3	4'-8"	12"	2'-8"	1.5" Schedule 40 Galvanized Pipe
ANT275D6-9	10'	12"	2'-8"	1.5" Schedule 40 Galvanized Pipe

ELEMENT HORIZONTAL Spacing from tower

MODEL	1/4 wl. OFFSET CIRCULAR	3/8 wl. CARDIOID	1/2 wl. BI-DIRECTIONAL
ANT37D	6'-11"	N/A	N/A
ANT40D	6'	N/A	N/A
ANT50D	5'	7'-5"	N/A
ANT70D	3'-6"	5'-3"	MAX EXTENSION
ANT75D, D3	3'-2"	4'-9"	5'-5"
ANT90D, D3	2'-6"	3'-9"	5'
ANT120D, D3, D6-9	23"	2'-11"	3'-10"
ANT150D, D3, D6-9	18"	2'-4"	3'
ANT220D, D3, D6-9	13.5"	20"	2'-3"
ANT275D, D3, D6-9	10.75"	16"	21"

NOTE: The physical characteristics of large dipoles require a correction factor from calculated values for mast spacing. The dimensions in the above table include this correction.

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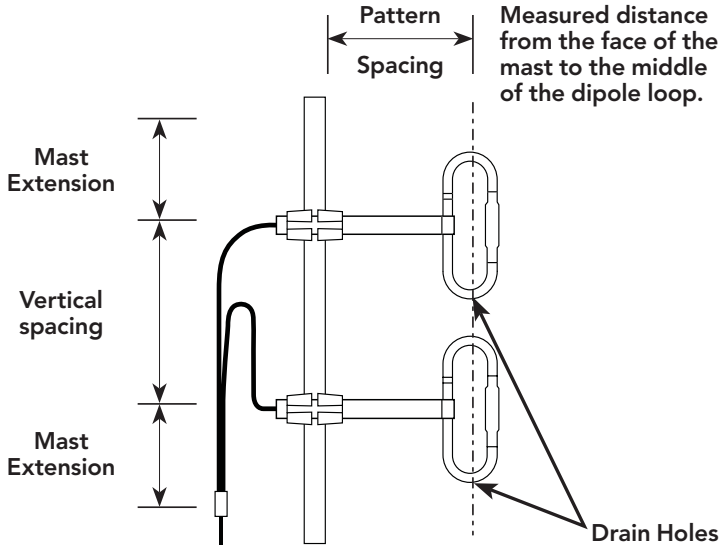
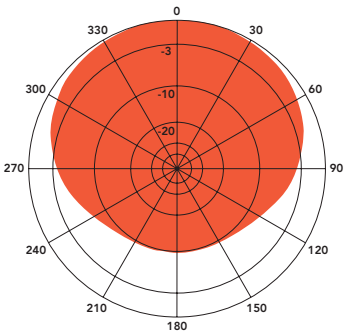
DIPOLE PATTERN ADJUSTMENT

Telewave exposed dipoles are field adjustable to provide different horizontal patterns and gain values. The horizontal spacing from tower between the dipole and the support mast or tower leg controls this adjustment. Review the patterns below to determine which is best suited to your range area requirements. Use the chart to find the appropriate dimension for the antenna to mast spacing. The drawing on the reverse side shows how this measurement is made and the vertical spacing to be used for multi-bay arrays.

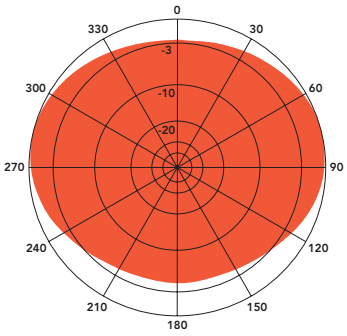


IMPORTANT: Be sure that the drain holes are on the bottom when the elements are installed.

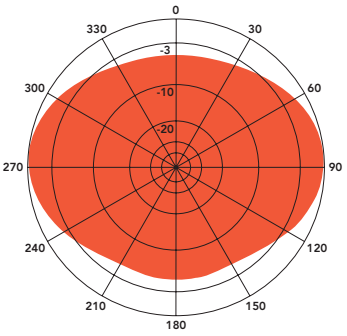
Horizontal radiation patterns



Offset Circular
1/4 wavelength spacing



Cardioid
3/8 wavelength spacing



Bi-directional
1/2 wavelength spacing

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DIPOLE PATTERN ADJUSTMENT

DIPOLE MOUNTING AND MAST SPECIFICATIONS

Mast lengths shown are minimum acceptable lengths to insure proper pattern control. Longer masts are acceptable, but the dipole or array must be centered on the support to prevent beam tilt. The clamps provided with the dipoles will work properly to attach the dipole boom to a mast that is between 1.5 to 2.5 inches in diameter. To attach to smaller supports (1-1.5" diameter), use ANTS420 shims. This allows direct mounting to small towers such as the Rohn 25 and 45.

MAST MINIMUM LENGTH AND ELEMENT VERTICAL SPACING

ANTENNA	MAST LENGTH	MAST EXTENSION	VERTICAL SPACING	MINIMUM MAST TYPE
ANT350D	18"	10"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT350D3	3'-5"	10"	23"	1.5" Schedule 40 Galvanized Pipe
ANT350D6-9	7'-3"	10"	23"	1.5" Schedule 40 Galvanized Pipe
ANT375D	16"	8"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT375D3	3'-3"	8"	22.5"	1.5" Schedule 40 Galvanized Pipe
ANT375D6-9	7'-2"	8"	22.5"	1.5" Schedule 40 Galvanized Pipe
ANT400D	15"	7.5"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT400D3	3'	7.5"	22"	1.5" Schedule 40 Galvanized Pipe
ANT400D6-9	6'-9"	7.5"	22"	1.5" Schedule 40 Galvanized Pipe
ANT450D	13"	6.5"	N/A	1.5" Schedule 40 Galvanized Pipe
ANT450D3	2'-8.5"	6.5"	19.375"	1.5" Schedule 40 Galvanized Pipe
ANT450D6-9	6'	6.5"	19.375"	1.5" Schedule 40 Galvanized Pipe
ANT500D	**13"**	**6.5"**	**N/A**	1.5" Schedule 40 Galvanized Pipe
ANT500D3	**2'-9"**	**6.5"**	**20"**	1.5" Schedule 40 Galvanized Pipe
ANT500D6-9	**6'-1"**	**6.5"**	**20"**	1.5" Schedule 40 Galvanized Pipe
ANT550D	**12"**	**6"**	**N/A**	1.5" Schedule 40 Galvanized Pipe
ANT550D3	**2'-3"**	**5.5"**	**16"**	1.5" Schedule 40 Galvanized Pipe
ANT550D6-9	**5'-11"**	**5.5"**	**16"**	1.5" Schedule 40 Galvanized Pipe
ANT750D	**8"**	**4"**	**N/A**	1.5" Schedule 40 Galvanized Pipe
ANT750D3	**19"**	**4"**	**11"**	1.5" Schedule 40 Galvanized Pipe
ANT750D6-9	**3'-6"**	**4"**	**11"**	1.5" Schedule 40 Galvanized Pipe
ANT900D	**6.5"**	**3.25"**	**N/A**	0.5" Schedule 40 Galvanized Pipe
ANT900D3	**22"**	**4"**	**14"**	0.5" Schedule 40 Galvanized Pipe
ANT900D6-9	4'-2"	4"	14"	0.75" Schedule 40 Galvanized Pipe

ELEMENT HORIZONTAL Spacing from tower

MODEL NUMBER	1/4 wl. OFFSET CIRCULAR	3/8 wl. CARDIOID	1/2 wl. BI-DIRECTIONAL
ANT350D, D3, D6-9	8.5"	12.5"	16.5"
ANT375D, D3, D6-9	8"	12"	15"
ANT400D, D3, D6-9	7.5"	11"	14"
ANT450D, D3, D6-9	6.5"	10"	13"
ANT500D, D3, D6-9	5.8"	8.7"	11.6"
ANT550D, D3, D6-9	5.4"	8.1"	10.7'
ANT750D, D3, D6-9	3.9"	5.75"	7.7"
ANT900D, D3, D6-9	3.3"	4.9"	6.5'

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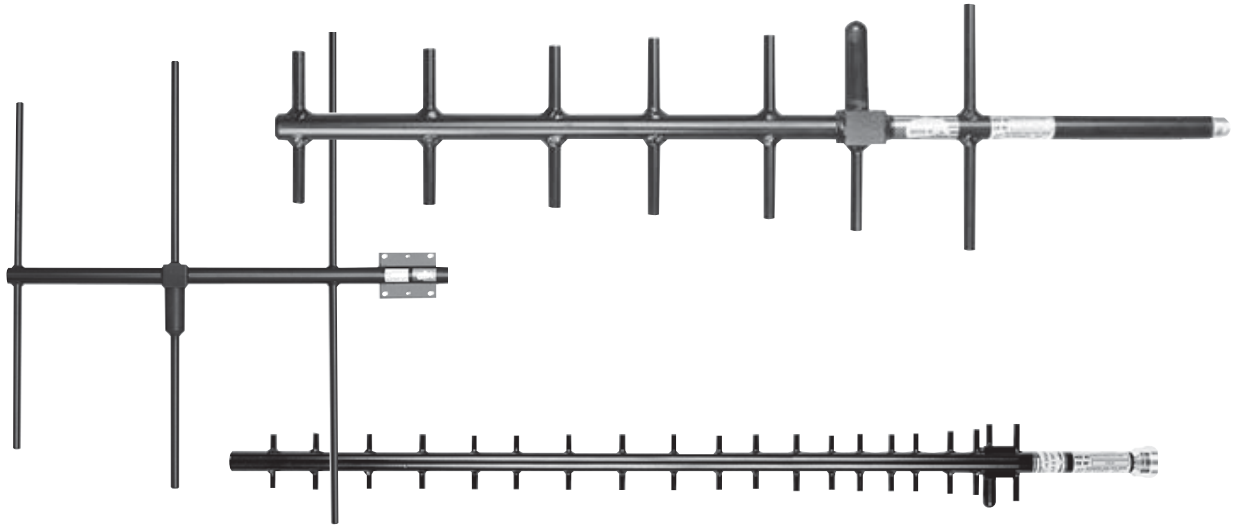
DIRECTIONAL YAGI ANTENNAS

138 - 2500 MHz



Telewave Directional Yagi antennas are some of the strongest and most reliable in the industry. These antennas are designed using sophisticated CAD and pattern modelling software, and manufactured to endure the harshest environments without failure or degradation of performance. Telewave Yagi antennas are fabricated from all-aluminum or all-brass stock, using solid elements and heavy-wall tubular booms, with fully welded or soldered joints. For the most extreme environments, certain models can be fabricated from stainless steel for ultimate durability.

The RF connector is permanently mounted in end of the boom to form a single, integrated unit, except for the Y10H series, which uses a weatherproof pigtail. A solid internal conductor is sealed within the boom, and feeds a sealed active element, eliminating any possibility of failure due to corrosion or ice expansion. Telewave Yagi antennas also feature our high-tech coating called ***Txylan™***, which completely encapsulates all our Yagi antennas, providing total protection from water, corrosive chemicals, salt spray, and windblown abrasives. This smooth black coating also dramatically reduces surface friction, reducing and often preventing ice adhesion, while improving absorption of solar radiation.

The standard connector type is N-Female, and a 7-16 DIN-F can be installed as an option for higher power applications. Gain ranges from 5 to 15 dBd, and higher gains are available on request. Certain models are available with a 90-degree feed option, which allows Heliax® or other hardline coax to be terminated directly at the antenna, without additional flexible jumpers. All Telewave Yagis can be ordered to accommodate vertical or horizontal polarization, and many models allow the use of our Universal Mount, which provides enormous installation flexibility for mounting antennas to non-vertical supports.

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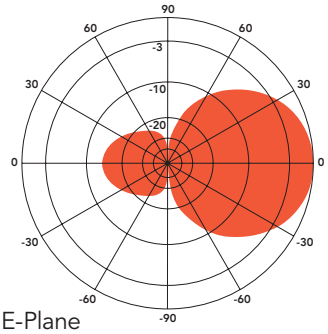
TWDS-7042 Rev. 2/07

138 - 152 MHz

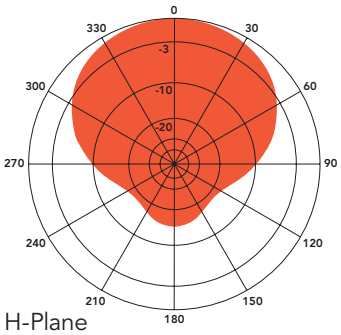
ANT144Y5-WR

YAGI ANTENNA 5 dBd

ANT144Y5-WR at 147 MHz



E-Plane
Gain: 5.0 dBd



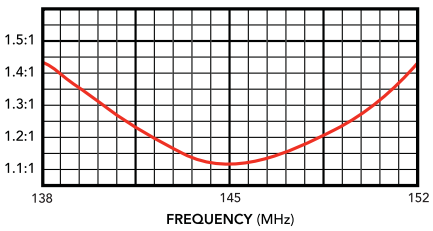
H-Plane
Gain: 5.0 dBd

The Telewave ANT144Y5-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 5 dBd forward gain with an excellent front-to-back ratio, and solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element connection is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT144Y5-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with any diameter between 1.5" - 2.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	138-152 MHz	**Elements**	3
Gain (typ)	5 dBd	**Dimensions (L x H) in.**	38 x 42
Power rating (typ)	500 watts	**Antenna weight**	17 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	22 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	64° / 120°	**Exposed area (flat plate equiv.)**	1.1 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	44 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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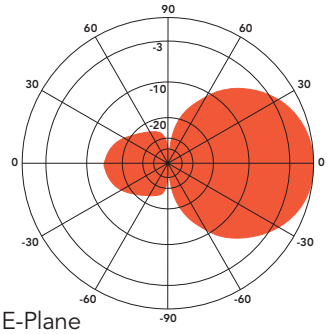
TWDS-7087 Rev. 3/07

148 - 174 MHz

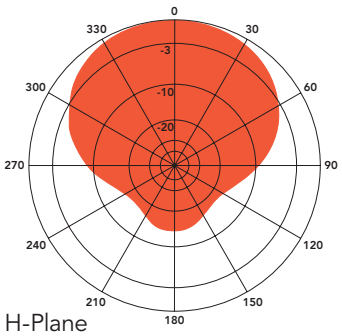
ANT150Y7-WR

YAGI ANTENNA 5 dBd / 7 dBi

ANT150Y7-WR at 156 MHz



E-Plane
Gain: 5.1 dBd

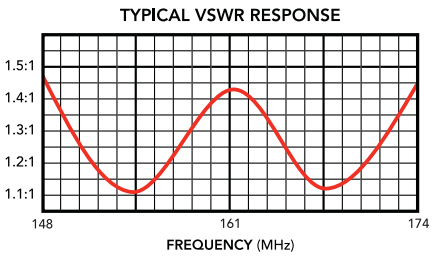


H-Plane
Gain: 5.1 dBd

The Telewave ANT150Y7-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 5 dBd forward gain with an excellent front-to-back ratio, and solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element connection is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT150Y7-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with any diameter between 1.5" - 2.5".



SPECIFICATIONS			
Frequency (continuous)	148-174 MHz	**Elements**	3
Gain (typ)	5 dBd	**Dimensions (L x H) in.**	38 x 40.5
Power rating (typ)	500 watts	**Antenna weight**	16 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	21 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	64° / 114°	**Exposed area (flat plate equiv.)**	1.0 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	41 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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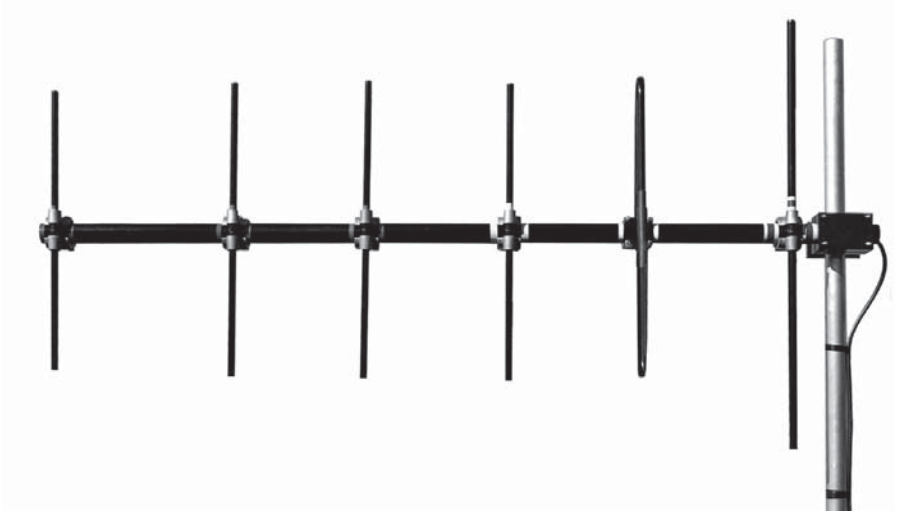
TWDS-7005 Rev. 3/07

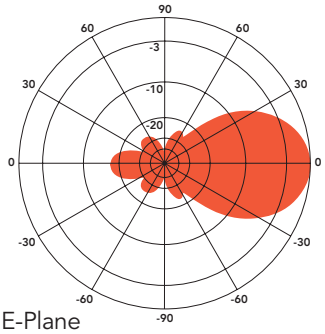
144 - 174 MHz

ANT150Y10H

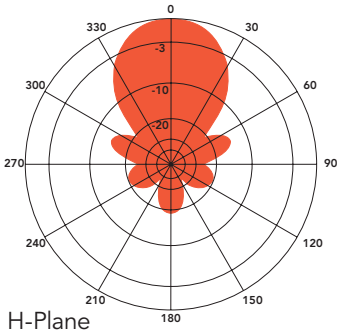
YAGI ANTENNA 10 dBd



ANT150Y10H at 156 MHz



E-Plane
Gain: 10.1 dBd



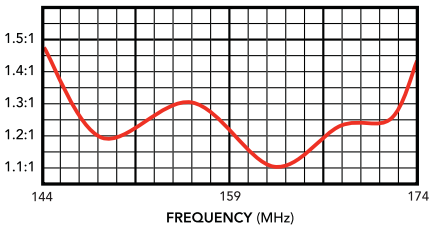
H-Plane
Gain 10.1 dBd

The Telewave ANT150Y10H is a rugged, high performance directional antenna, designed for point-to-point or point-to-multipoint control applications. Six elements provide a minimum of 10 dBd forward gain, good front-to-back performance, and exceptional wide band capability. The elements are constructed from solid aluminum to prevent intermodulation and provide exceptional strength.

All antenna components are completely protected with our high-tech Txylan™ coating, which seals the antenna against corrosive gases, ultraviolet radiation, salt spray, acid rain, and abrasives such as wind-blown sand in desert environments. This coating also greatly reduces ice buildup. The active element connection and feed line are sealed within the antenna, eliminating a major cause of failure.

The ANT150Y10H includes a heavy duty, single-axis rotatable mount, to allow vertical or horizontal polarization. The standard clamp set will accommodate any vertical or horizontal support member up to 3.5" in diameter.

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	144-174 MHz	**Elements**	6
Gain (typ)	10 dBd	**Dimensions (L x H) in.**	96 x 40
Power rating (typ)	500 watts	**Antenna weight**	38 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	55 lb.
Front to back ratio (min)	17 dB	**Wind rating / with 0.5" ice**	150 / 100
Beamwidth V / H	44° / 47°	**Exposed area (flat plate equiv.)**	1.7 ft.²
Pattern / Polarization	Directional / Vertical or Hrz.	**Lateral thrust at 100 MPH** (40 P/SF flat plate equiv.)	67 lb.
Termination	N Female or 7-16 DIN (opt)	**Bending moment at mast clamp**	222 ft. lb.

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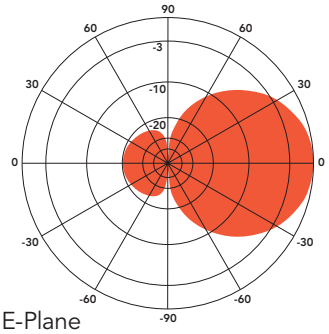
TWDS-7041 Rev. 2/07

215 - 240 MHz

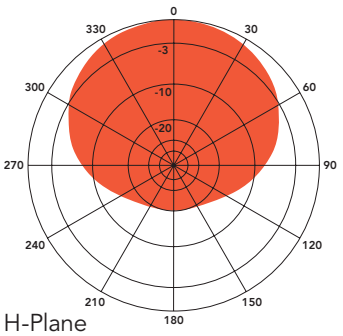
ANT220Y7-WR

YAGI ANTENNA 5 dBd / 7 dBi

ANT220Y7-WR at 221 MHz



E-Plane
Gain: 5.07 dBd



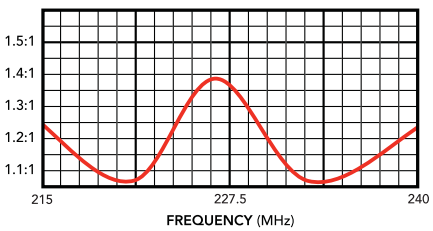
H-Plane
Gain: 5.1 dBd

The Telewave ANT220Y7-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 5 dBd forward gain with an excellent front-to-back ratio, and solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element connection is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT220Y7-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with any diameter between 1.5" - 2.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	215-240 MHz	**Elements**	3
Gain (typ)	5 dBd	**Dimensions (L x H) in.**	30 x 30
Power rating (typ)	500 watts	**Antenna weight**	11 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	16 lb.
Front to back ratio (min)	15 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	64° / 114°	**Exposed area (flat plate equiv.)**	0.7 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	28 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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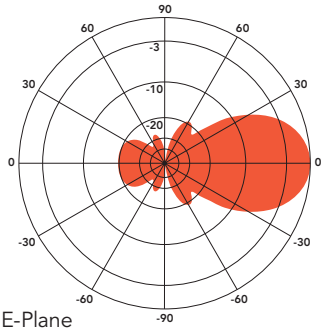
TWDS-7038 Rev. 3/07

405 - 512 MHz

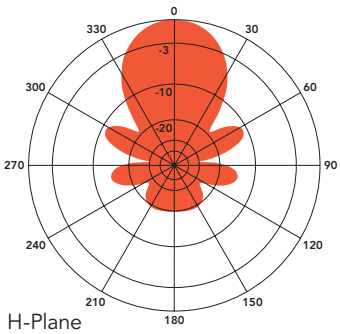
ANT400Y10-WR SERIES

YAGI ANTENNA 10 dBd

ANT400Y10-WR at 460 MHz



E-Plane
Gain: 10.0 dBd



H-Plane
Gain: 10.3 dBd

The Telewave ANT400Y10-WR series consists of 7 high performance directional antennas, designed for point-to-point or point-to-multipoint applications. These antennas produce 10 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

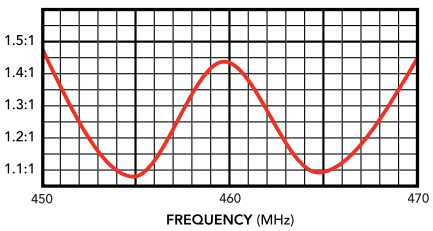
Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand.

The feed line is protected within the boom, and the radiating element is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

ANT400Y10-WR series antennas include a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".

FREQUENCY RANGES	
ANT410Y10-WR	405-420 MHz
ANT420Y10-WR	415-450 M Hz
ANT430Y10-WR	420-440 MHz
ANT440Y10-WR	438-455 MHz
ANT450Y10-WR	450-470 MHz
ANT490Y10-WR	470-500 MHz
ANT500Y10-WR	490-512 MHz

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency range	405-512 MHz	**Elements**	7
Gain (typ)	10 dBd	**Dimensions (typical) (L x H) in.**	44 x 14.5
Power rating (typ)	500 watts	**Antenna weight**	8 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	11 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	49° / 47°	**Exposed area (flat plate equiv.)**	0.42 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	17 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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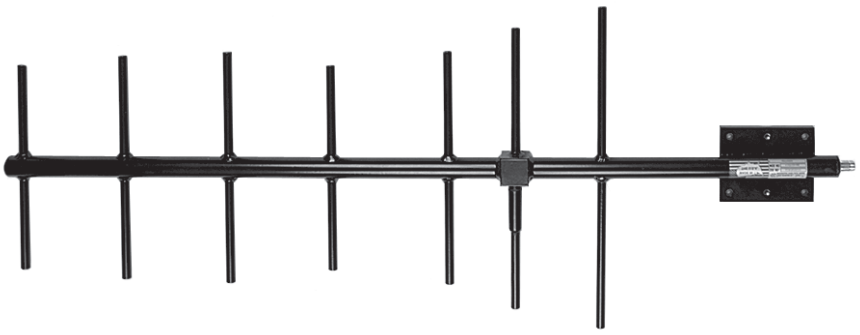
TWDS-7043 Rev. 3/07

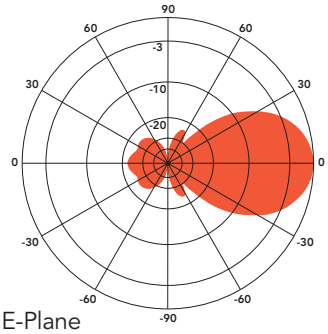
405 - 420 MHz

ANT410Y10-WR

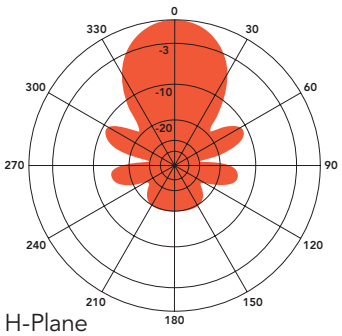
YAGI ANTENNA 10 dBd



ANT410Y10-WR at 410 MHz



E-Plane
Gain: 10.0 dBd



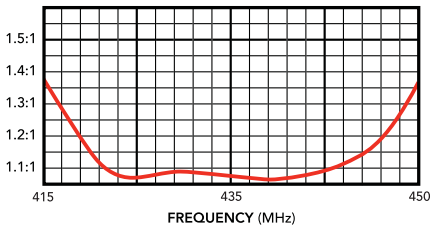
H-Plane
Gain: 10.3 dBd

The Telewave ANT410Y10-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 10 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element is completely sealed against ice and other hazards with a tough, RF-transparent radome.

The ANT410Y10-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	405-420 MHz	**Elements**	7
Gain (typ)	10 dBd	**Dimensions (L x H) in.**	44 x 14.5
Power rating (typ)	500 watts	**Antenna weight**	8 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	11 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	49° / 47°	**Exposed area (flat plate equiv.)**	0.42 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	17 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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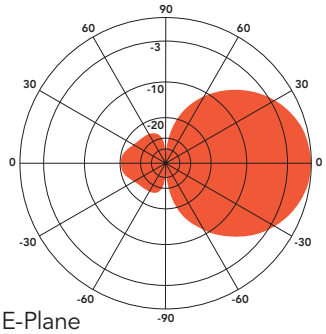
TWDS-7031 Rev. 3/07

420 - 470 MHz

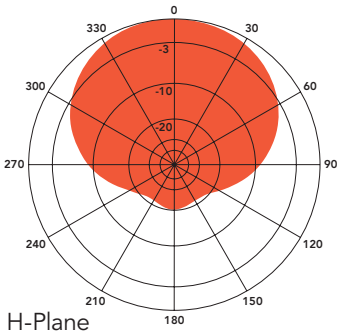
ANT450Y5-WR

YAGI ANTENNA 5 dBd

ANT450Y5-WR at 440 MHz

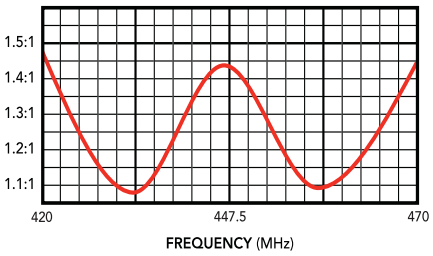


E-Plane
Gain: 5.2 dBd



H-Plane
Gain: 5.2 dBd

TYPICAL VSWR RESPONSE



The Telewave ANT450Y5-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 5 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT450Y5-WR (H,U) includes a welded plate and mast clamp set for vertical polarization. For horizontal polarization, specify the "H" option. The clamp set secures the antenna to a mast or tower support leg with an effective diameter between 1" - 2.5". For installations on angled supports, the "U" mount provides 3 separate planes of rotation to allow almost any required orientation of the antenna. The "U" version attaches to virtually all supports up to 3.5" in diameter, and can be adapted to flat surfaces and utility poles.

SPECIFICATIONS			
Frequency (continuous)	420-470 MHz	**Elements**	3
Gain (typ)	5 dBd	**Dimensions (L x H) in.**	24 x 14
Power rating (typ)	500 watts	**Antenna weight**	5 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	9 lb.
Front to back ratio (min)	18 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	64° / 116°	**Exposed area (flat plate equiv.)**	0.12 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	4.8 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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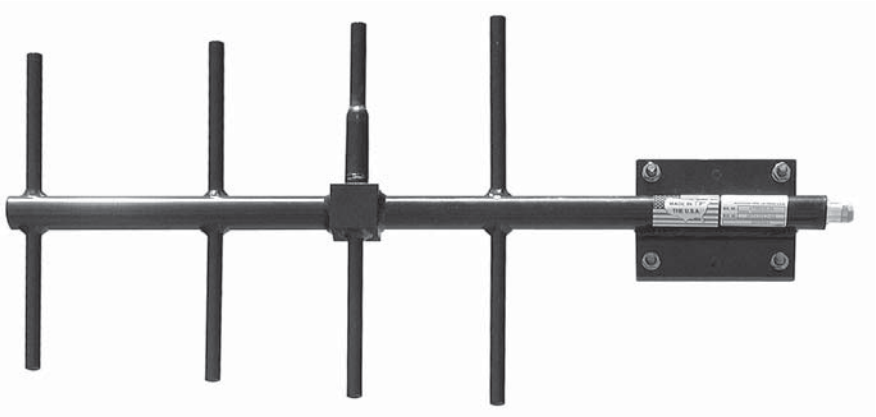
TWDS-7006 Rev. 2/07

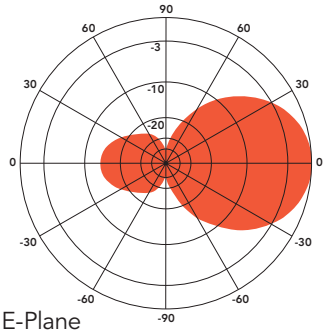
450 - 470 MHz

ANT450Y7-WR

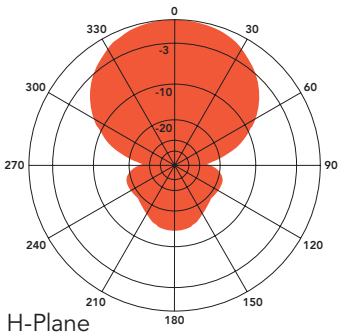
YAGI ANTENNA 7 dBd



ANT450Y7-WR at 460 MHz



E-Plane
Gain: 7.3 dBd



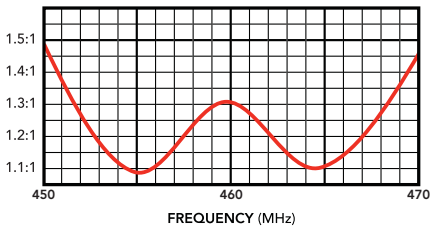
H-Plane
Gain: 7.2 dBd

The Telewave ANT450Y7-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 7 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds provide exceptional strength and prevent intermodulation.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT450Y7-WR (H,U) includes a welded plate and mast clamp set for vertical polarization. For horizontal polarization, specify the "H" option. The clamp set secures the antenna to a mast or tower support leg with an effective diameter between 1" - 2.5". For installations on angled supports, the "U" mount provides 3 separate planes of rotation to allow almost any required orientation of the antenna. The "U" version attaches to virtually all supports up to 3.5" in diameter, and can be adapted to flat surfaces and utility poles.

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	450-470 MHz	**Elements**	4
Gain (typ)	7 dBd	**Dimensions (L x H) in.**	29 x 13
Power rating (typ)	500 watts	**Antenna weight**	5 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	9 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	54° / 80°	**Exposed area (flat plate equiv.)**	0.33 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	13.4 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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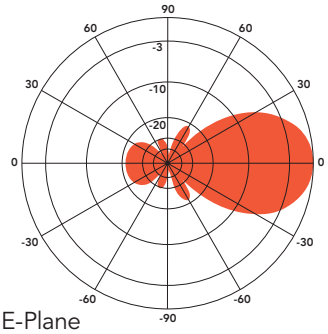
TWDS-7007 Rev. 2/07

450 - 470 MHz

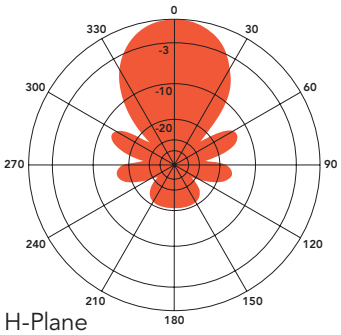
ANT450Y10-WR

YAGI ANTENNA 10dBd

ANT450Y10-WR at 460 MHz



E-Plane
Gain: 10.2 dBd



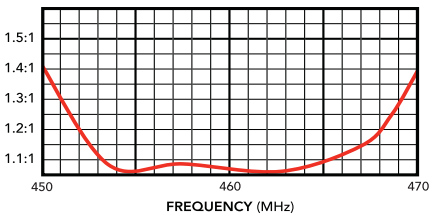
H-Plane
Gain: 10.2 dBd

The Telewave ANT450Y10-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or multipoint applications. This antenna produces 10 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element is completely sealed against ice and other hazards with a tough, RF-transparent radome.

The ANT450Y10-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	450-470 MHz	**Elements**	7
Gain (typ)	10 dBd	**Dimensions (L x H) in.**	44 x 14.5
Power rating (typ)	500 watts	**Antenna weight**	8 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	11 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	150 / 125
Beamwidth V / H	49° / 47°	**Exposed area (flat plate equiv.)**	0.42 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	17.0 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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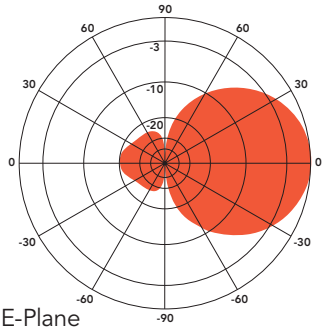
TWDS-7063 Rev. 3/07

734 - 806 MHz

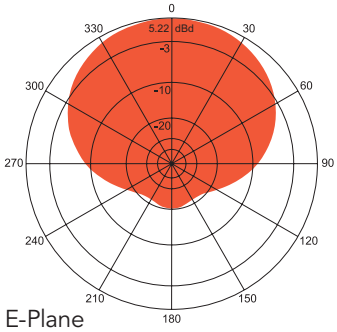
ANT750Y5-WR

YAGI ANTENNA 5 dBd

ANT750Y5-WR at 770 MHz



E-Plane
Gain: 5.21 dBd



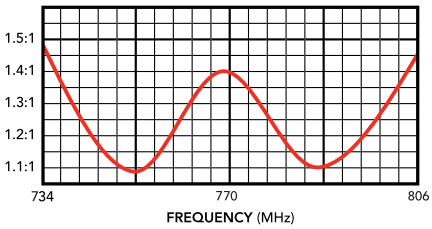
E-Plane
Gain: 5.28 dBd

The Telewave ANT750Y5-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or multipoint applications. This antenna produces 5 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element is completely sealed against ice and other hazards with a tough, RF-transparent radome.

The ANT750Y5-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	734-806 MHz	**Elements**	3
Gain (typ)	5 dBd	**Dimensions (L x H) in.**	12 x 8
Power rating (typ)	500 watts	**Antenna weight**	3 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	7 lb.
Front to back ratio (min)	18 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	64° / 116°	**Exposed area (flat plate equiv.)**	0.11 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	4.5 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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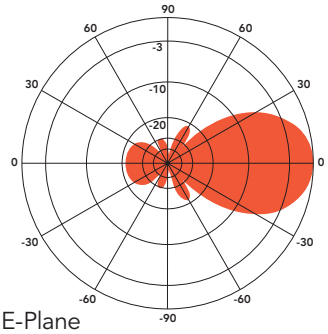
TWDS-7096 Rev. 3/07

800 - 870 MHz

ANT830Y10-WR

YAGI ANTENNA 10 dBd

ANT830Y10-WR at 837 MHz

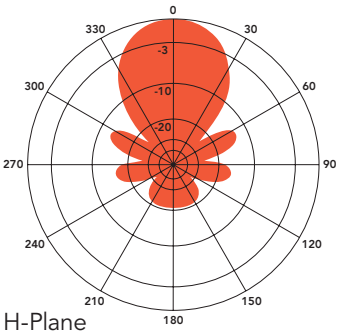


E-Plane
Gain: 10.2 dBd

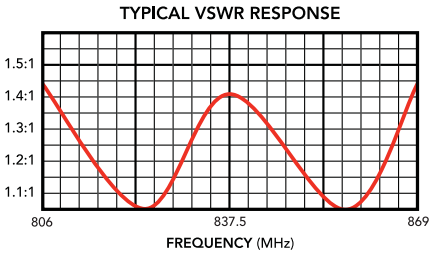
The Telewave ANT830Y10-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multi-point applications. This antenna produces 10 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element connection is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT830Y10-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".



H-Plane
Gain: 10.2 dBd



SPECIFICATIONS			
Frequency (continuous)	800-870 MHz	**Elements**	7
Gain (typ)	10 dBd	**Dimensions (L x H) in.**	24 x 11
Power rating (typ)	500 watts	**Antenna weight**	3 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	6 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	49° / 47°	**Exposed area (flat plate equiv.)**	0.25 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	7.25 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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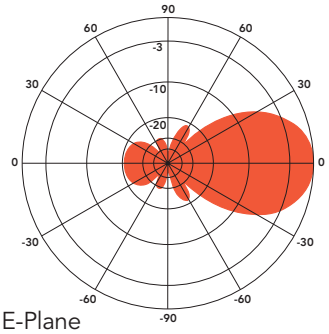
TWDS-7003 Rev. 2/07

822 - 900 MHz

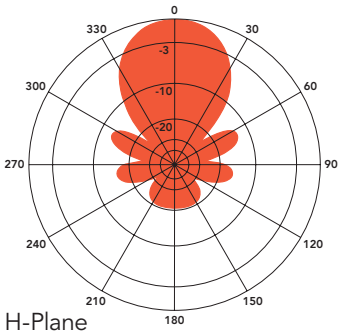
ANT850Y10-WR

YAGI ANTENNA 10 dBd

ANT850Y10-WR at 877 MHz



E-Plane
Gain: 10.2 dBd



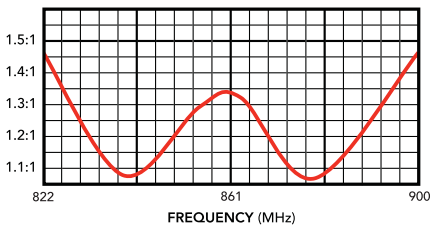
H-Plane
Gain: 10.2 dBd

The Telewave ANT850Y10-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multipoint applications. This antenna produces 10 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element connection is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT850Y10-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	822-900 MHz	**Elements**	7
Gain (typ)	10 dBd	**Dimensions (L x H) in.**	24 x 11
Power rating (typ)	500 watts	**Antenna weight**	3 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	7 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	49° / 47°	**Exposed area (flat plate equiv.)**	0.25 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	7.25 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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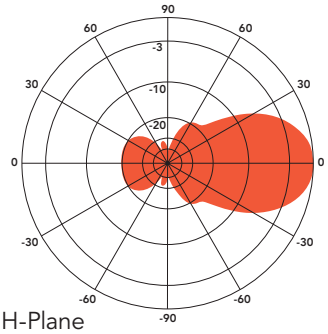
TWDS-7061 Rev. 2/07

885 - 975 MHz

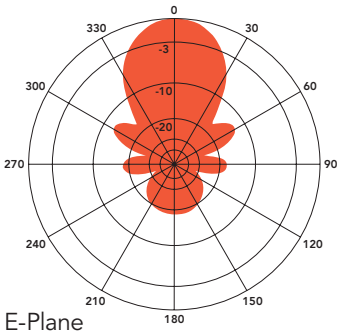
ANT930Y10-WR

YAGI ANTENNA 10.2 dBd / 12.3 dBi

ANT930Y10-WR at 930 MHz



H-Plane
Gain: 10.5 dBd



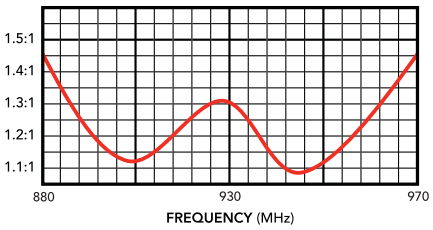
E-Plane
Gain: 10.5 dBd

The Telewave ANT930Y10-WR Yagi is a rugged, high performance directional antenna, designed for band-specific point-to-point or point-to-multipoint control applications. Seven elements provide a minimum of 10.2 dBd (12.3 dBi) forward gain, excellent front-to-back performance, and coverage of the entire 900 MHz commercial band. The boom and elements are solid 360° welded aluminum to prevent intermodulation and provide exceptional strength.

All antenna components are completely protected with our high-tech Txylan™ coating, which seals the antenna against corrosive gases, ultraviolet radiation, salt spray, acid rain, and abrasives such as windblown sand in desert environments. This coating also greatly reduces ice build-up. The active element and feed line are sealed within the antenna, eliminating a major cause of failure.

The ANT930Y10-WR includes a fully welded vertical or horizontal mounting plate, and a clamp set with stainless steel hardware which accommodates support mast diameters from 1.0" to 2.5". An optional Universal mount allows mounting to straight or angled supports up to 3.5", and continuously adjustable polarization with a 90° angle feed for hardline cable.

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	885-975 MHz	**Elements**	7
Gain (typ)	10.2 dBd	**Dimensions (L x H) in.**	28 x 7.5
Power rating (typ)	500 watts	**Antenna weight**	5 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	8 lb.
Front to back ratio (min)	25 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	43° / 41°	**Exposed area (flat plate equiv.)**	0.25 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	10.0 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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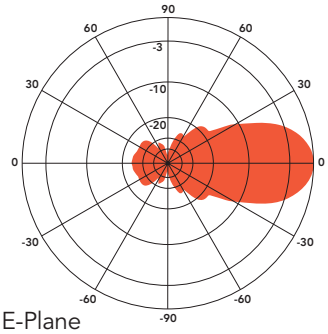
TWDS-7016 Rev. 2/07

880-960 MHz

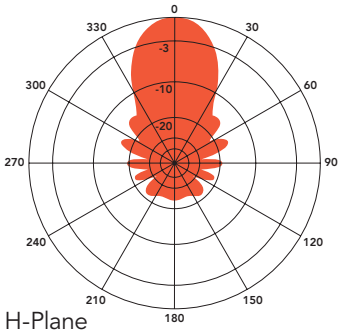
ANT930Y12-WR

YAGI ANTENNA 12.2 dBd / 14.3 dBi

ANT930Y12-WR at 930 MHz



E-Plane
Gain: 12.2 dBd



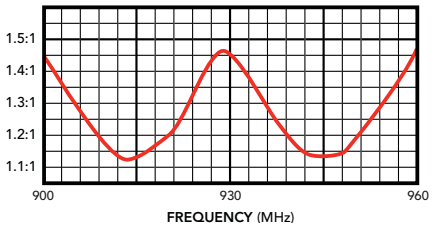
H-Plane
Gain: 12.2 dBd

The Telewave ANT930Y12-WR Yagi is a rugged, high performance directional antenna, with reduced sidelobes, and very high F/B ratio. Twelve elements provide a minimum of 12.2 dBd (14.3 dBi) forward gain, excellent front-to-back performance, and coverage of the entire 900 MHz commercial band. The boom and elements are 360° welded aluminum to prevent intermodulation and provide exceptional strength.

All antenna components are completely protected with our high-tech Txylan™ coating, which seals the antenna against corrosive gases, ultraviolet radiation, salt spray, acid rain, and abrasives such as windblown sand in desert environments. This coating also greatly reduces ice buildup. The active element and feed line are sealed within the antenna, eliminating a major cause of failure.

The ANT930Y12-WR includes a fully welded vertical or horizontal mounting plate, and a clamp set with stainless steel hardware which accommodates support mast diameters from 1.0" to 2.5". An optional Universal mount allows mounting to straight or angled supports up to 3.5", and continuously adjustable polarization with a 90° angle feed for hardline cable.

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	880-960 MHz	**Elements**	12
Gain (typ)	12.2 dBd	**Dimensions (L x H) in.**	44 x 6
Power rating (typ)	500 watts	**Antenna weight**	6 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	11 lb.
Front to back ratio (min)	26 dB	**Wind rating / with 0.5" ice**	175 / 150
Beamwidth V / H	34° / 36°	**Exposed area (flat plate equiv.)**	0.58 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	23.2 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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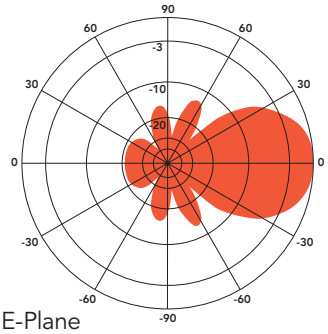
TWDS-7004 Rev. 2/07

900 - 960 MHz

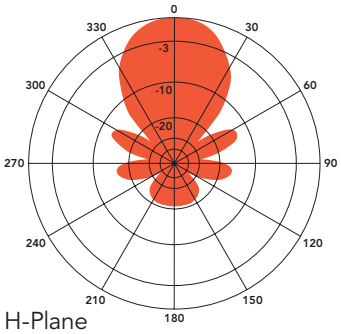
ANT940Y10-WR

YAGI ANTENNA 10 dBd

ANT940Y10-WR at 935 MHz



E-Plane
Gain: 10.22 dBd



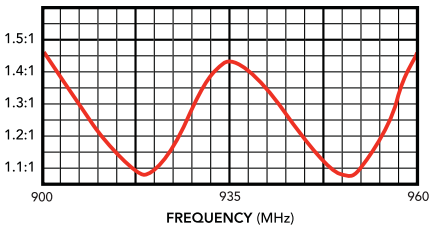
H-Plane
Gain: 10.22 dBd

The Telewave ANT940Y10-WR Yagi antenna is a high performance directional antenna, designed for point-to-point or point-to-multi-point applications. This antenna produces 10 dBd forward gain with an excellent front-to-back ratio. Solid aluminum elements with 360° welds prevent intermodulation and provide exceptional strength.

Each antenna is completely protected with our high-tech Txylan™ coating, which provides icing resistance and environmental protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and wind blown abrasives such as desert sand. The feed line is protected within the boom, and the radiating element connection is completely sealed against ice and other environmental hazards with a tough, RF-transparent radome.

The ANT940Y10-WR includes a welded plate and mast clamp set. The clamp set secures the antenna to a vertical mast or tower support leg with an effective diameter between 1.5" - 2.5". For installations on angled supports, the "U" version allows mounting to virtually all angled supports up to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	900-960 MHz	**Elements**	7
Gain (typ)	10 dBd	**Dimensions (L x H) in.**	24 x 11
Power rating (typ)	500 watts	**Antenna weight**	3 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	7 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	49° / 47°	**Exposed area (flat plate equiv.)**	0.25 ft.²
Pattern / Polarization	Directional / Vertical	**Lateral thrust at 100 MPH**	7.25 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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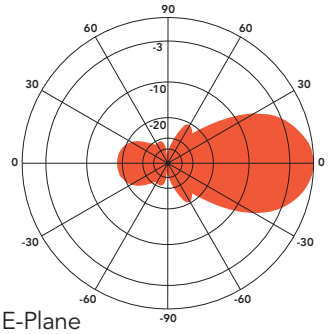
TWDS-7062 Rev. 2/07

1425 - 1535 MHz

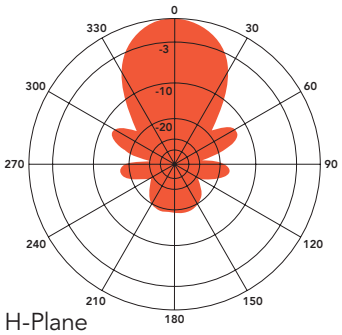
ANT1470Y12-WR

YAGI ANTENNA 12.2 dBd / 14.3 dBi

ANT1470Y12-WR at 1470 MHz



E-Plane
Gain: 10.2 dBd



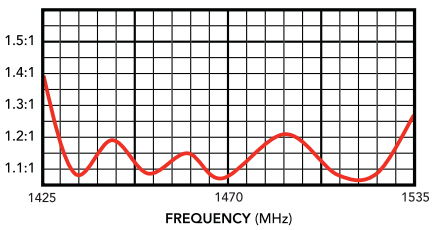
H-Plane
Gain: 10.2 dBd

The Telewave ANT1470Y12-WR is a rugged, wide-band, high-gain Yagi antenna, designed for point-to-point or point-to-multipoint applications in any environment. The antenna uses twelve solid brass elements, and produces 12.2 dBd forward gain with excellent front-to-back performance. Construction and design are optimized to prevent RF intermodulation, and ensure precise pattern control.

Each antenna is completely protected with Telewave's high-tech Txylan™ coating, which protects the antenna from corrosive gases, UV radiation, salt spray, acid rain and wind-blown abrasives. The feed line is sealed within the antenna boom, and an RF-transparent radome protects the driven element from corrosion or icing.

The ANT1470Y12-WR includes a standard clamp set that allows the installer to configure the antenna for vertical or horizontal polarization. The universal mount option allows mounting to angled supports, and tilt adjustment. The standard clamp sets will attach to a support mast with a diameter of 0.5" to 1.5", and the universal mount can be attached to a supporting structure from 1" to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	1425-1535 MHz	**Elements**	12
Gain (typ)	12.2 dBd	**Dimensions (L x H) in.**	26 x 5
Power rating (typ)	500 watts	**Antenna weight**	2 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	7.0 lb.
Front to back ratio (min)	24 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	30° / 35°	**Exposed area (flat plate equiv.)**	0.3 ft.²
Pattern / Polarization	Directional / Variable	**Lateral thrust at 100 MPH**	16.5 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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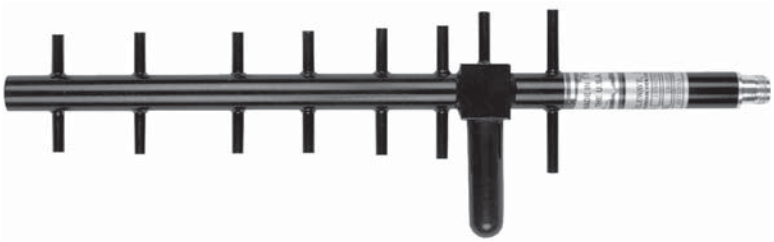
TWDS-7023 Rev. 2/07

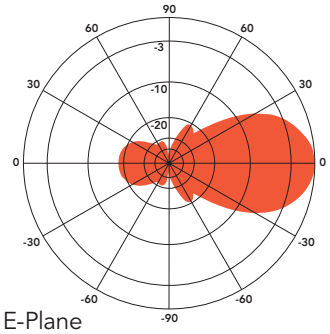
1710 - 1880 MHz

ANT1800Y10-WR

YAGI ANTENNA 10.2 dBd / 12.3 dBi



ANT1800Y10-WR at 1795 MHz

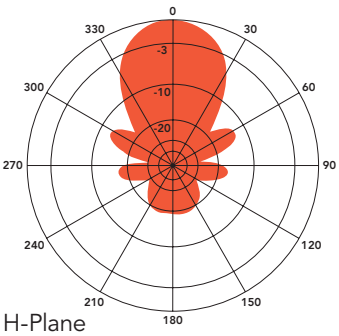


E-Plane
Gain: 10.2 dBd

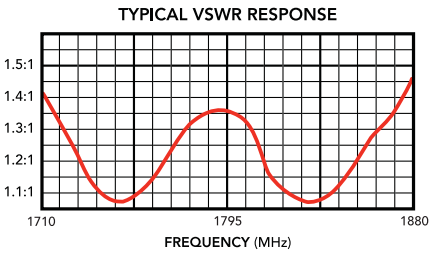
The Telewave ANT1800Y10-WR is a rugged, wide-band, high-gain Yagi antenna, designed for point-to-point or point-to-multipoint applications in any environment. The antenna uses eight solid aluminum elements, and produces 10 dBd forward gain with exceptional front-to-back performance. Construction and design are optimized to prevent RF intermodulation, and ensure precise pattern control.

Each antenna is completely protected with Telewave's high-tech Txylan™ coating, which protects the antenna from corrosive gases, UV radiation, salt spray, acid rain and wind-blown abrasives. The feed line is sealed within the antenna boom, and an RF-transparent radome protects the driven element from corrosion or icing.

The ANT1800Y10-WR includes a standard clamp set that allows the installer to configure the antenna for vertical or horizontal polarization. The universal mount option allows mounting to angled supports, and tilt adjustment. The standard clamp sets will attach to a support mast with a diameter of 0.5" to 1.125", and the universal mount can be attached to a supporting structure from 1" to 3.5".



H-Plane
Gain: 10.2 dBd



SPECIFICATIONS			
Frequency (continuous)	1710-1880 MHz	**Elements**	8
Gain (typ)	10.2 dBd	**Dimensions (L x H) in.**	19 x 3
Power rating (typ)	500 watts	**Antenna weight**	3 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	5 lb.
Front to back ratio (min)	20 dB	**Wind rating / with 0.5" ice**	165 / 150
Beamwidth V / H	42° / 44°	**Exposed area (flat plate equiv.)**	0.13 ft.²
Pattern / Polarization	Directional / Variable	**Lateral thrust at 100 MPH**	5.3 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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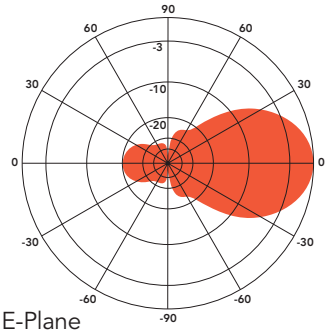
TWDS-7014 Rev. 2/07

1850 - 1990 MHz

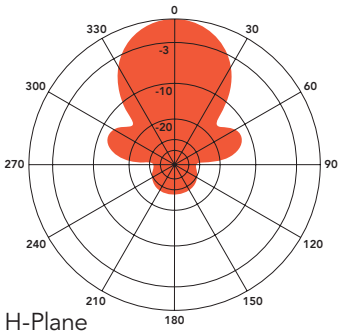
ANT1920Y9-WR

YAGI ANTENNA 9.3 dBd / 11.4 dBi

ANT1920Y9-WR at 1920 MHz



E-Plane
Gain: 9.3 dBd



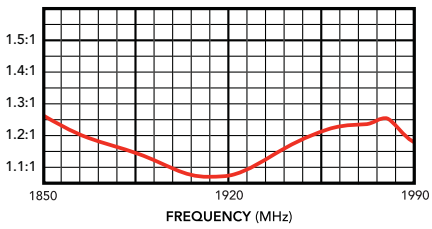
H-Plane
Gain: 9.3 dBd

The Telewave ANT1920Y9-WR is a rugged, wide-band, high-gain Yagi antenna, designed for point-to-point or point-to-multipoint applications in any environment. The antenna uses six solid brass elements, and produces 9.3 dBd forward gain with good front-to-back performance. Construction and design are optimized to prevent RF intermodulation, and ensure precise pattern control.

Each antenna is completely protected with Telewave's high-tech Txylan™ coating, which protects the antenna from corrosive gases, UV radiation, salt spray, acid rain and wind-blown abrasives. The feed line is sealed within the antenna boom, and an RF-transparent radome protects the driven element from corrosion or icing.

The ANT1920Y9-WR includes a standard clamp set that allows the installer to configure the antenna for vertical or horizontal polarization. The universal mount option allows mounting to angled supports, and tilt adjustment. The standard clamp sets will attach to a support mast with a diameter of 0.5" to 2.5", and the universal mount can be attached to a supporting structure from 1" to 3.5".

TYPICAL VSWR RESPONSE



SPECIFICATIONS			
Frequency (continuous)	1850-1990 MHz	**Elements**	6
Gain (typ)	9.3 dBd	**Dimensions (L x H) in.**	10 x 3
Power rating (typ)	500 watts	**Antenna weight**	1 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	6 lb.
Front to back ratio (min)	17.5 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	54° / 46°	**Exposed area (flat plate equiv.)**	0.15 ft.²
Pattern / Polarization	Directional / Variable	**Lateral thrust at 100 MPH**	8.0 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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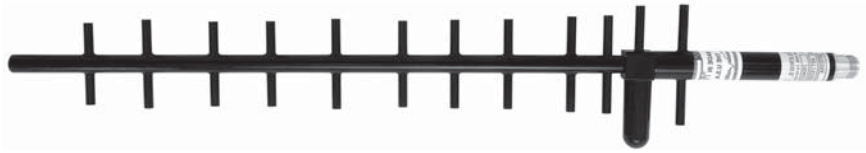
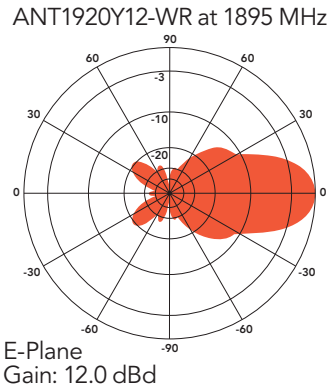
TWDS-7027 Rev. 2/07

1850 - 1990 MHz

ANT1920Y12-WR

YAGI ANTENNA 12.2 dBd / 14.3 dBi



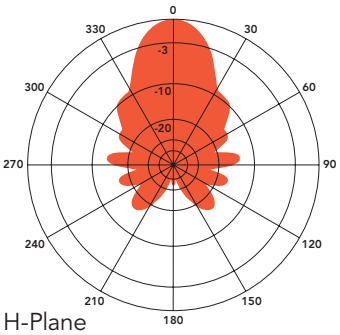


E-Plane
Gain: 12.0 dBd

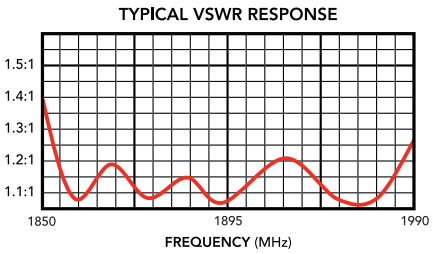
The Telewave ANT1920Y12-WR is a rugged, wide-band, high-gain Yagi antenna, designed for point-to-point or point-to-multi-point applications in any environment. The antenna uses twelve solid brass elements, and produces 12.2 dBd forward gain with exceptional front-to-back performance. Construction and design are optimized to prevent RF intermodulation, and ensure precise pattern control.

Each antenna is completely protected with Telewave's high-tech Txylan™ coating, which protects the antenna from corrosive gases, UV radiation, salt spray, acid rain and wind-blown abrasives. The feed line is sealed within the antenna boom, and an RF-transparent radome protects the driven element from corrosion or icing.

The ANT1920Y12-WR includes a standard clamp set that allows the installer to configure the antenna for vertical or horizontal polarization. The universal mount option allows mounting to angled supports, and tilt adjustment. The standard clamp sets will attach to a support mast with a diameter of 0.5" to 1.5", and the universal mount can be attached to a supporting structure from 1" to 3.5".



H-Plane
Gain: 12.0 dBd



SPECIFICATIONS			
Frequency (continuous)	1850-1990 MHz	**Elements**	12
Gain (typ)	12.2 dBd	**Dimensions (L x H) in.**	23 x 3.25
Power rating (typ)	500 watts	**Antenna weight**	2 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	6 lb.
Front to back ratio (min)	22 dB	**Wind rating / with 0.5" ice**	200 / 165
Beamwidth V / H	30° / 35°	**Exposed area (flat plate equiv.)**	0.2 ft.²
Pattern / Polarization	Directional / Variable	**Lateral thrust at 100 MPH**	8.0 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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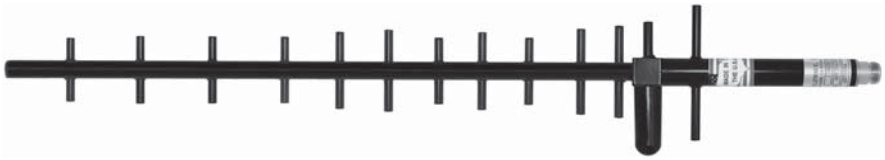
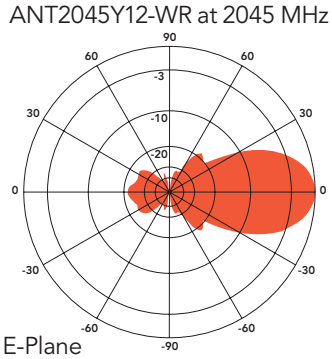
TWDS-7015 Rev. 2/07

1920 - 2170 MHz

ANT2045Y12-WR

YAGI ANTENNA 12 dBd / 14.1 dBi



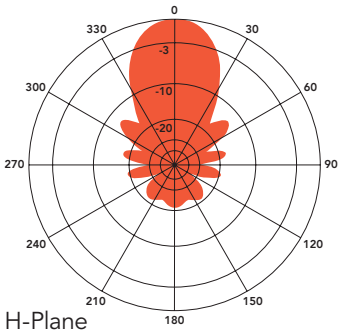


E-Plane
Gain: 12.0 dBd

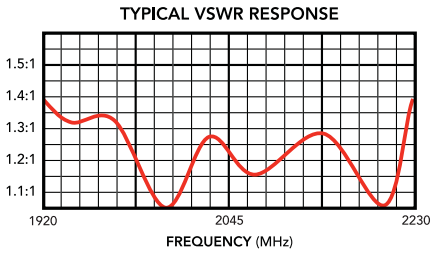
The Telewave ANT2045Y12-WR is a rugged, wide-band, high-gain Yagi antenna, designed for point-to-point or point-to-multipoint applications in any environment. The antenna uses thirteen solid brass elements, and produces 12 dBd forward gain with exceptional front-to-back performance. Construction and design are optimized to prevent RF intermodulation, and ensure precise pattern control.

Each antenna is completely protected with Telewave's high-tech Txylan™ coating, which protects the antenna from corrosive gases, UV radiation, salt spray, acid rain and wind-blown abrasives. The feed line is sealed within the antenna boom, and an RF-transparent radome protects the driven element from corrosion or icing.

The ANT2045Y12-WR includes a standard clamp set that allows the installer to configure the antenna for vertical or horizontal polarization. The universal mount option allows mounting to angled supports, and tilt adjustment. The standard clamp sets will attach to a support mast with a diameter of 0.5" to 1.125", and the universal mount can be attached to a supporting structure from 1" to 3.5".



H-Plane
Gain: 12.0 dBd



SPECIFICATIONS			
Frequency (continuous)	1920-2170 MHz	**Elements**	13
Gain (typ)	12 dBd	**Dimensions (L x H) in.**	24 x 3.75
Power rating (typ)	500 watts	**Antenna weight**	1.6 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	6.0 lb.
Front to back ratio (min)	30 dB	**Wind rating / with 0.5" ice**	175 / 150 MPH
Beamwidth V / H	30° / 35°	**Exposed area (flat plate equiv.)**	0.14 ft.²
Pattern / Polarization	Directional / Variable	**Lateral thrust at 100 MPH**	5.6 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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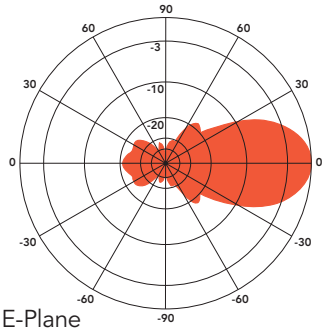
TWDS-7088 Rev. 2/07

2400 - 2500 MHz

ANT2400Y12-WR

YAGI ANTENNA 12 dBd / 14.1 dBi

ANT2400Y12-WR at 2450 MHz

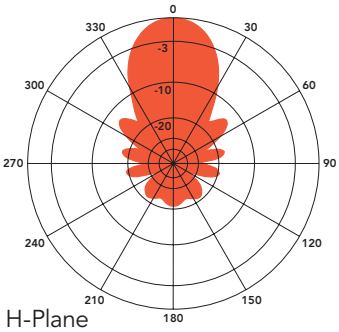


E-Plane
Gain: 12.0 dBd

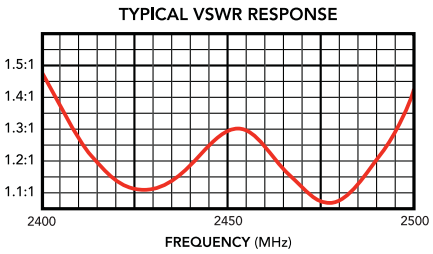
The Telewave ANT2400Y12-WR is a rugged, wide-band, high-gain Yagi antenna, designed for point-to-point or point-to-multi-point applications in any environment. The antenna uses ten solid brass elements, and produces 12 dBd forward gain with exceptional front-to-back performance. Construction and design are optimized to prevent RF intermodulation, and ensure precise pattern control.

Each antenna is completely protected with Telewave's high-tech Txylan™ coating, which protects the antenna from corrosive gases, UV radiation, salt spray, acid rain and wind-blown abrasives. The feed line is sealed within the antenna boom, and an RF-transparent radome protects the driven element from corrosion or icing.

The ANT2400Y12-WR includes a standard clamp set that allows the installer to configure the antenna for vertical or horizontal polarization. The universal mount option allows mounting to angled supports, and tilt adjustment. The standard clamp set will attach to a support mast with a diameter of 0.5" to 1.125", and the universal mount can be attached to a supporting structure from 1" to 3.5".



H-Plane
Gain: 12.0 dBd



SPECIFICATIONS			
Frequency (continuous)	2400-2500 MHz	**Elements**	10
Gain (typ)	12 dBd	**Dimensions (L x H) in.**	16" x 2.5"
Power rating (typ)	500 watts	**Antenna weight**	1.25 lb.
Impedance / VSWR	50 ohms / 1.5:1 (max)	**Shipping weight**	6.0 lb.
Front to back ratio (min)	30 dB	**Wind rating / with 0.5" ice**	165 / 150
Beamwidth V / H	30° / 35°	**Exposed area (flat plate equiv.)**	0.05 ft.²
Pattern / Polarization	Directional / Variable	**Lateral thrust at 100 MPH**	1.98 lb.
Termination	N Female or 7-16 DIN (opt)	**(40 P/SF flat plate equiv.)**	

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TWDS-7008 Rev. 2/07

138 - 960 MHz

INSTALLATION GUIDE FOR YAGI ANTENNAS

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

IMPORTANT

BEFORE ASSEMBLING AND MOUNTING:

Carefully read all instructions and study the diagrams. Check to make sure you have all parts.

PARTS LIST (Fig. 1)

(1) Antenna assy.
(1) Mounting plate
(2) 5/16-18 x 1.0" lg. Scr.
(4) 5/16-18 x 4.0" lg. Scr.
(8) Lock washers
(10) Hex nuts

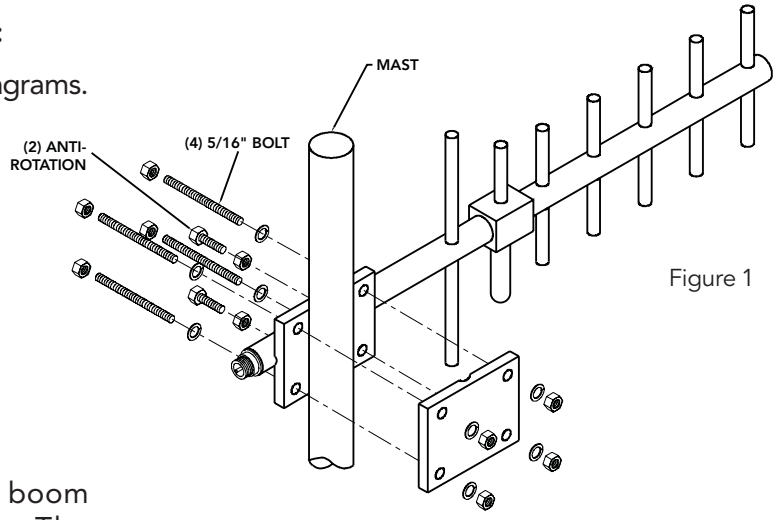

Figure 1

MOUNTING INSTRUCTIONS

1. Attach mounting plate and antenna boom plate to the mast with 5/16" bolts. The orientation must be set so that antenna elements are vertical. The mounting plate and the boom plate provide self alignment for vertical polarization and orientation.
2. Secure the mounting plate with supplied hex nuts and lock washers to provide reasonable pressure to the mast. Tighten the anti-rotation bolts to resist turning forces on the antenna, and tighten the jam nuts to prevent loosening.
3. The antenna input connector is a Type "N" Female. Connect RF feed cable to antenna output connector. Secure all cables with cable ties. Fig. 2 illustrates a typical method for connecting the RF cable, with a feed cable service loop.
4. Be sure to properly seal the input connector with waterproof tape or other sealing material. See Telewave TWDS-0502 for a recommended method of connector sealing.

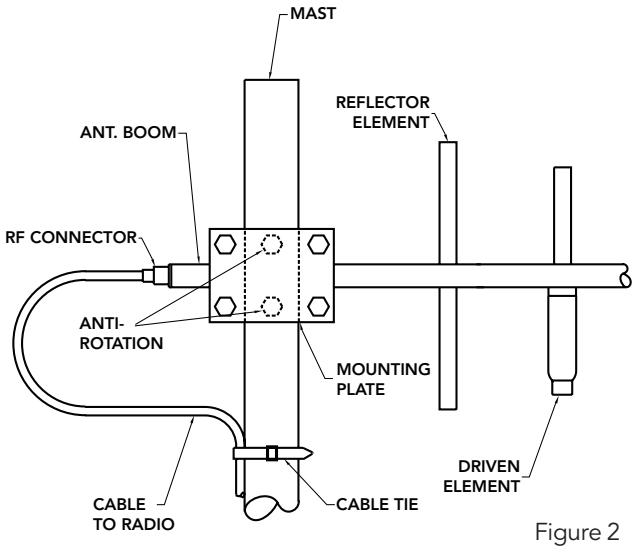

Figure 2

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TWDS-7081 Rev. 2/07

1.0 - 2.5 GHz

INSTALLATION GUIDE FOR YAGI ANTENNAS

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

IMPORTANT

BEFORE ASSEMBLING AND MOUNTING:

Carefully read all instructions and study the diagrams.
Check to make sure you have all parts.

PARTS LIST (Figure 1)

(1) Antenna assy.
(2) Mounting plates
(1) U-bolt
(2) Hex nuts
(2) Lock washers

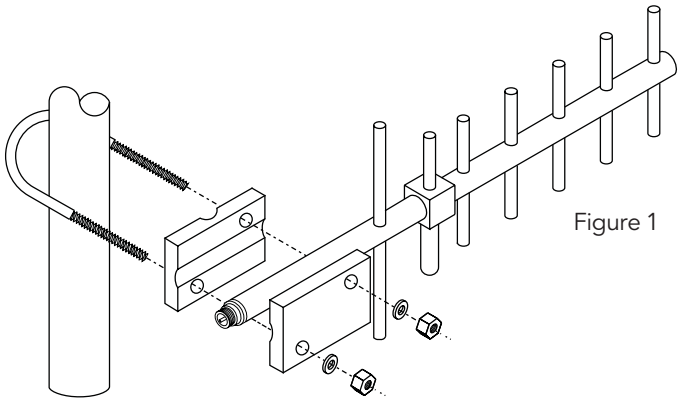

Figure 1

MOUNTING INSTRUCTIONS

1. Loosely attach mounting plate and antenna clamp plate to the mast with 5/16" U-bolt. Slide the antenna boom end into the groove in the mounting plates, and turn the antenna elements to vertical or horizontal, depending on the requirements of the application. Vertical polarization and orientation is the most common.
2. Secure the mounting plates with supplied hex nuts and lock washers, to provide reasonable pressure to the mast.
3. The antenna input connector is a Type "N" Female. Connect RF feed cable terminated with Type "N" Male to antenna input connector. Secure all cables with cable ties. Fig. 2 illustrates a typical method for connecting the RF cable, with a feed cable service loop.
4. Be sure to properly seal the input connector with waterproof tape or other sealing material. See Telewave TWDS-0502 "Connection Weatherproofing instructions" for a recommended method of connector sealing.

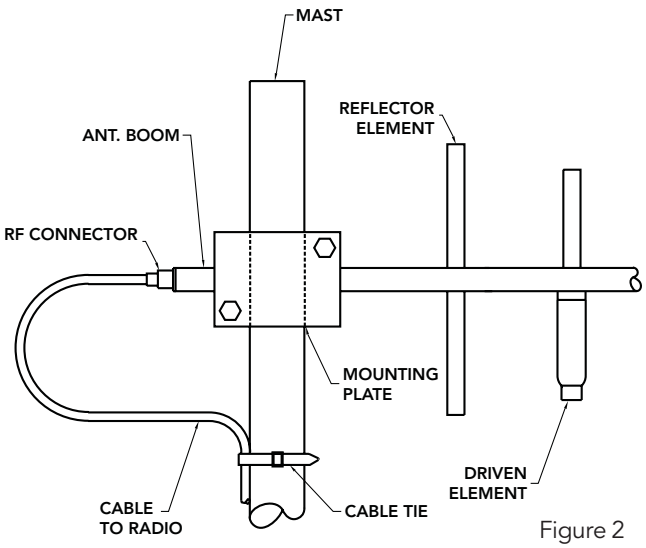

Figure 2

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24 - 72 MHz

ANTPD 204, 206
LOW BAND RF POWER DIVIDERS

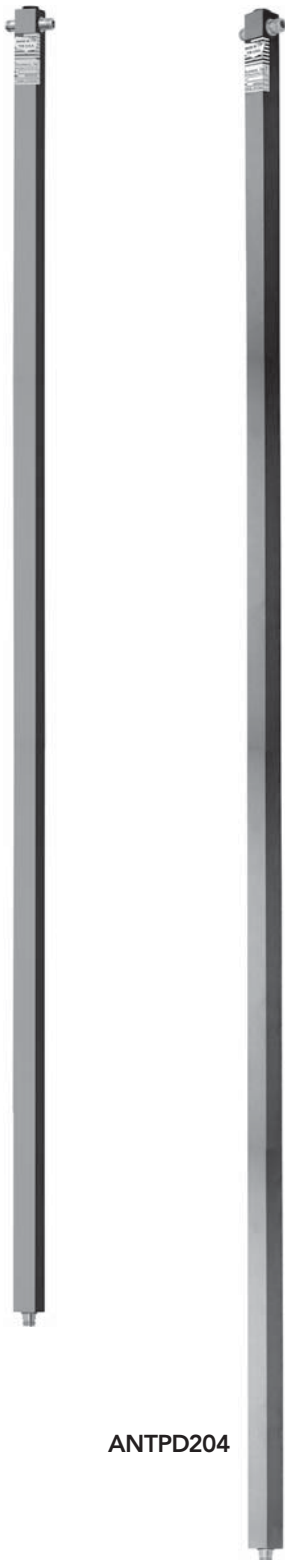
Telewave Low Band RF Power Dividers divide up to 500 Watts of power from a single source over 2 outputs. These dividers are available in two overlapping frequency bands from 24 MHz to 72 MHz, with very low VSWR and insertion loss. Power is divided equally to each output port.

Telewave power dividers are custom machined from solid 6061-T6 aluminum stock. These devices utilize solid metal conductors for all internal RF paths, enabling high power handling and extremely low insertion loss. No coaxial cabling of any kind is used internally, and no tuning is required for full band coverage. The standard connector type is N Female, and 7-16 DIN can also be supplied as an option for higher power applications.

Telewave power dividers also feature our high-tech ***Txylan™*** coating, which provides strong protection from water, corrosive chemicals, salt spray, and windblown abrasives.

This poly-polar coating beads water, and is chemically bonded to the metal surface of the device, reducing and often preventing ice adhesion, and does not chip or flake.

In situations where port-to-port isolation is not required, Telewave power dividers can also be used to feed two receivers from a common antenna, with less than 0.25 dB insertion loss.



ANTPD206

ANTPD204

SPECIFICATIONS	
Frequency range	204: 24-54 MHz 206: 45-72 MHz
Input power (typ)	500 watts
Impedance	50 ohm
VSWR	1.3:1 or less
Insertion loss (total to all ports)	0.15 dB or less
Power division (2 way)	50%
Connectors	N Female or 7-16 DIN (opt.)
Dimensions (HWD) in. (cm)	204: 76 x 1 x 1 (193 x 2.5 x 2.5) 206: 51 x 1 x 1 (129.5 x 2.5 x 2.5)
Weight lb. (kg)	204: 9 (4.1) 206: 6 (2.7)

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TWDS-7099 Rev. 2/07

24 - 2500 MHz

ANTPD SERIES
RF POWER DIVIDERS

Telewave RF Power Dividers divide up to 500 Watts of power from a single source over 2, 3, or 4 outputs. Dividers are available in overlapping frequency bands from 25 MHz to 2.5 GHz, with very low VSWR and insertion loss. Power is divided equally to each output port.

Telewave power dividers are custom machined from solid 6061-T6 aluminum stock. These devices utilize solid metal conductors for all internal RF paths, enabling 500 watt continuous power handling and extremely low insertion loss. No coaxial cabling of any kind is used internally, and no tuning is required for full band coverage. The standard connector type is N Female, and 7-16 DIN can also be supplied as an option for high power applications.

Telewave power dividers also feature our high-tech ***Txylan™*** coating, which provides strong protection from water, corrosive chemicals, salt spray, and windblown abrasives. This poly-polar coating beads water, and is chemically bonded to the metal surface of the device, and does not chip or flake. The size and shape of these dividers lends itself to many possible mounting applications, including panels, masts, or tower legs, providing maximum installation flexibility.

In situations where port-to-port isolation is not required, Telewave power dividers can also be used to feed several receivers from a common antenna, with less than 0.25 dB insertion loss.

FREQUENCY RANGES	
ANTPDx04	24-54 MHz
ANTPDx06	45-72 MHz
ANTPDx08	65-110 MHz
ANTPDx1	90-210 MHz
ANTPDx2	180-250 MHz
ANTPDx3	250-450 MHz
ANTPDx4	350-600 MHz
ANTPDx7	675-850 MHz
ANTPDx8	760-920 MHz
ANTPDx9	900-1100 MHz
ANTPDx14	1350-1600 MHz
ANTPDx18	1700-2050 MHz
ANTPDx24	2000-2500 MHz

POWER DIVISION (equal output to each port)		
ANTPD2xx	2 - Way	50%
ANTPD3xx	3 - Way	33.3%
ANTPD4xx	4 - Way	25%

ANTPD424

ANTPD28D

ANTPD34

ANTPD21

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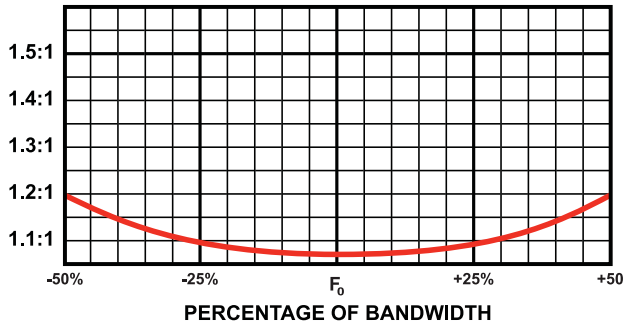
24 - 2500 MHz

ANTPD SERIES
RF POWER DIVIDERS

TYPICAL VSWR RESPONSE



SPECIFICATIONS	
Frequency range	24-2500 MHz
Input power (typ)	500 Watts
Impedance	50 ohms
VSWR (max)	1.3:1
Connectors	N Female or 7-16 DIN (opt.)

INSERTION LOSS (total - from input to all output ports)		
ANTPDx04, x06, x08, x1	24-110 MHz	0.1 dB
ANTPDx2	180-250 MHz	0.15 dB
ANTPDx3	250-450 MHz	0.18 dB
ANTPDx4, x7, x8	350-920 MHz	0.2 dB
ANTPDx9, x14, x18, x24	900-2500 MHz	0.22 dB

N-FEMALE			7-16 DIN		
MODEL	DIMENSIONS	WEIGHT	MODEL	DIMENSIONS	WEIGHT
ANTPDx04	76″ L x 1″ x 1″	9 lb.	ANTPDx04D	76.25″ L x 1″ x 1″	11 lb.
ANTPDx06	51″ L x 1″ x 1″	6 lb.	ANTPDx06D	51.25″ L x 1″ x 1″	7 lb.
ANTPDx08	38.5″ L x 1″ x 1″	5.5 lb.	ANTPDx08D	38.75″ L x 1″ x 1″	6.5 lb.
ANTPDx1	21″ L x 1″ x 1″	4.5 lb.	ANTPDx1D	21.25″ L x 1″ x 1″	5.5 lb.
ANTPDx2	15.5″ L x 1″ x 1″	3.5 lb.	ANTPDx2D	15.75″ L x 1″ x 1″	4.5 lb.
ANTPDx3	11″ L x 1″ x 1″	3 lb.	ANTPDx3D	11.25″ L x 1″ x 1″	4 lb.
ANTPDx4	8.5″ L x 1″ x 1″	2 lb.	ANTPDx4D	8.75″ L x 1″ x 1″	3 lb.
ANTPDx7	5.5″ L x 1″ x 1″	1.5 lb.	ANTPDx7D	5.75″ L x 1″ x 1″	2.5 lb.
ANTPDx8	5.25″ L x 1″ x 1″	1.5 lb.	ANTPDx8D	6.0″ L x 1″ x 1″	2.5 lb.
ANTPDx9	5″ L x 1″ x 1″	1.5 lb.	ANTPDx9D	5.25″ L x 1″ x 1″	2.5 lb.
ANTPDx14	3.5″ L x 1″ x 1″	1 lb.	ANTPDx14D	3.75″ L x 1″ x 1″	2 lb.
ANTPDx18	3.25″ L x 1″ x 1″	1 lb.	ANTPDx18D	3.5″ L x 1″ x 1″	2 lb.
ANTPDx24	3.0″ L x 1″ x 1″	1 lb.	ANTPDx24D	3.25″ L x 1″ x 1″	2 lb.

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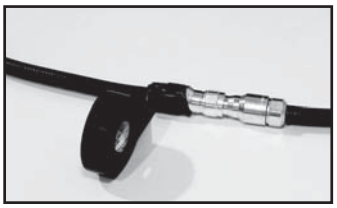
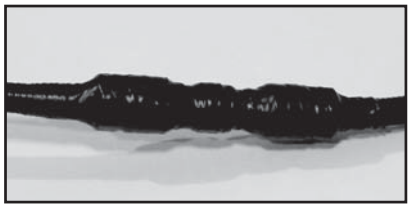
CONNECTION WEATHERPROOFING

The obvious purpose of wrapping a connection is to seal it from moisture intrusion. There are as many different methods of doing this as there are ways of cooking spaghetti. Some work, and some don't. The procedure illustrated here will give excellent results if done properly, and will last for years. The required materials are shown below: vinyl tape, butyl tape, mastic, and Scotch-Kote.



After a connection has been made and tested to verify that it has been properly done, it needs to be sealed. Begin by wrapping vinyl tape as shown to cover the connectors and a portion of both cables. Stretch the tape a minor amount as it is wound onto the cable, the connectors and then onto the other cable. Wrap this so that each new layer covers half of the previous wrap. Keep the wraps neat and as smooth as possible.

The second step is to wrap a second layer over the first layer, but wrap it in the other direction as shown. These two layers will keep the connection clean and tight. The next step is to wrap a layer of vinyl tape with the adhesive side out, as shown. Begin by folding the tape onto itself at a 45 degree angle. This provides a sticky surface to help bond the the next layer of tape to the connection.



The next step is to wrap the entire connection with the butyl tape. This layer provides the majority of the moisture shielding. The final step is to coat the entire butyl layer with Scotch-Kote. Coat a portion of each cable and the entire final layer of tape.

This material works very quickly to fuse the last layer together and to the cable jacket. After the Scotch-Kote has dried, encapsulate the finished connection with the mastic material.

It is best to secure the cable to the support on either side of the connection, not over the connection. One tie on each side is best, and spaced so as to support the connection, but not to disrupt the surface of the seal. This provides support, but will not compromise the seal you have just made. Added insurance against abrasion may be achieved by placing a single layer of vinyl tape onto the support where the connection will rest before tying the cable down. This provides some cushioning between the connection and the support.

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